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GenCore version 5.1.7

Om nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:55 ; Search time: 0285 Seconds  
(without alignments)  
11584.237 Million cell updates/sec

Title: US-10-801-292-1  
Perfect score: 2096  
Sequence: 1 ctccctcgctcctcgaaagaa.....aaaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenBank:  
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2: gb\_in:  
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		TITLE		JOURNAL		Direct Submission	
		Submitted (12-JAN-1999) Chinese National Human Genome Center at Shanghai, Guo Shoujing Rd. 351, Zhangjiang Hi-Tech Park, Pudong, Shanghai, 201203, P. R. China		REFERENCE		Submitted (26-AUG-2003) Chinese National Human Genome Center at Shanghai, Guo Shoujing Rd. 351, Zhangjiang Hi-Tech Park, Pudong, Shanghai, 201203, P. R. China	
		3 (bases 1 to 2527)		AUTHORS		Li, Y., Han, Z., Wang, Y., Chen, Z. and Fu, G.	
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JOURNAL	A novel gene expressed in the human adrenal gland						
REFERENCE	2 (bases 1 to 2527)						
AUTHORS	Fu, G., Wang, Y., Chen, Z. and Han, Z.						
TITLE	Huang, C., Zhang, C., Wu, T., Peng, Y., Gu, Y., Zhang, L., Jiang, C.,						
REFERENCE	Unpublished						
AUTHORS	Huang, C., Zhang, C., Wu, T., Peng, Y., Gu, Y., Zhang, L., Jiang, C.,						
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 Homidae; Homo.

REFERENCE  
 Yue, H.; Tang, Y.T.; Hillman, J.L.; Lal, P.; Bandman, O.; Baughn, M.R.,  
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 Human intracellular signaling molecules  
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AUTHORS							
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NABO human cDNA Sequencing Project							
TITLE							
JOURNAL							
2 (bases 1 to 1580)							
Sugano, S., Suzuki, T., Ota, T., Obayashi, M., Nishi, T., Isogai, T., Shibahara, T., Tanaka, T. and Nakamura, Y.							
Submitted (2 AUG-2001) Sumio Sugano, Institute of Medical Science, University of Tokyo, Laboratory of Genome Structure Analysis, Human Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8339, Japan (E-mail: fcldra@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286, Fax:81-3-5449-5416)							
NEDO human cDNA sequencing project supported by Ministry of							

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							insulin

Db	721	GGACTGAACTGATGAGAAGAGCAAGAAGACTGAGACCAACCTCCGGCAACATCGGGCTC
Qy	1279	AACAGACCTACTGAGCTTGACAGGGAGATCTACCTACCGCTCATCCGGAGG
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Qy	1339	AAGGATGGCTGCTATGGAGAACGAGACGAGCTGGCCAGGGAGAGCGAGGGTTGGCTC
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Qy	1399	TCTGACACGAGTGTGAGAGAAATGAGACAGAAAGTGGACGGAGATGAGCCAGCAG
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Qy	1879	TTAACGAAATCATGCTCTCTGTTCTGTTCTGTTCTGCTGCTGCTCTAG
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Qy	1938	ATAAATGATGATAGCTTAATGAGCAAGCTGAGCTTAATATTTCCTCATCTG
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RESULT 5		
LOCUS	CQ730103	1491 bp DNA linear PAT 03-FEB-2004
DEFINITION	Sequence 16037 from Patent WO20068579.	
ACCESSION	CQ730103	
VERSION	CQ730103.1	GI:42303049
KEYWORDS		
SOURCE	Homo sapiens (human)	
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.	
REFERENCE	1	

AUTHORS	VENTER, C.J., Adams, M.C., JI, P.W. and Myers, E.W.
TITLE	Kits, such as nucleic acid arrays, comprising a majority of human exons or transcripts, for detecting expression and other uses thereof
JOURNAL	Patent: WO 02068579-A 16037 06-SEP-2002; PE Corporation (NY) (US)
FEATURES	Location/Qualifiers
source	1. 1..1491 (organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
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Best Local Similarity	88.8%; Pred. No. 3e-204; 0; Mismatches 1; Indels 180; Gaps 2;
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121	CCCTTAGGGCGCCCGGCGCTCCGGCTGGCGGCGACCCCTCAGAGC 180
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361	ACTGAAGCTGGGACATGTCCTCATAGAGATTCAAGTACCTACACAGAACCTAACCGAGT 480
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421	CTTGATGAAATTAAAGAATTCCACAAAGGATTACCTCATAGAGATTCAACGAGAAGT 540
541	GAACTGAGGAATATGAACCAACTCTAAAGATACCAACGAAACAAAGAT 600
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505	-----
505	-----
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523	TCTCGTCAGAGTGAATTCAGAAATTCTTGCAAGATGGCTGCTGCTGAA 582
781	GAGAGAGGCGCTCTCTTCTGGTGTATAAGACTGGGGTTGAAACACATACAT 840
721	TCTCGTCAGAGTGAATTCAGAAATTCTTGCAAGATGGCTGCTGCTGAA 780
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841	TATATCACTACAGTGTGCAAGAACTACTGAAATCCAGCTCTGGCTGGAGGAC 900
643	TATATCACTACAGTGTGCAAGAACTACTGAAATCCAGCTCTGGAGGAC 702
RESULT	6
BC015459	
LOCUS	BC015459
DEFINITION	3040 bp mRNA linear ROD 01-MAR-2005
ORGANISM	Mus musculus
ACCESSION	Mus musculus BAL1-associated protein 2-like 1, mRNA (cDNA clone MGC:8269 IMAGE:3592632), complete cdb.
VERSION	BC015459
KEYWORDS	MGC.
SOURCE	Mus musculus (house mouse)
ORGANISM	Bukaryote; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murine; Mus.
REFERENCE	1 (bases 1 to 3040) Straubberg, R.D., Feingold, B.A., Grouse, I.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Sheuken, C.M., Schuler, G.D., Altchul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Ditschenko, L., Matsunaga, K., Farmer, A.P., Rubin, G.M., Hong, L.,

		RAGAKPKPSASTFRAPVSRPATSTSPDANGTAKRPFELSGENPPATVKLRPTVNDR SAPIR"
Scheetz, T.E.,	JOURNAL	Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Peters, G.J.,
Carnici, P., Prange, C., Raha, S., Loqueilano, N.A., Peters, G.J., Abramson, R.D., Mulahy, S.J., Bosak, S.A., McEwan, P.J.,	McKernan, K.J., Malek, J.A., Gundrati, P.H., Richards, S.,	
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Iu, X., Gibbs, R.A., Fahy, J., Helton, B., Kettman, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shvchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzwienski, M.I., Skalska, U., Smalius, D.E., Schnech, A., Schein, J.E., Jones, S.J., and Marra, M.A.	Fahy, J., Helton, B., Kettman, M., Madan, A., Rodrigues, S.,	
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
REMARK	PUBMED	12477932
2 (bases 1 to 3040)	REFERENCE	
director MGC Project.	AUTHORS	
Direct Submission	TITLE	
Submitted (01-OCT-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA	JOURNAL	
Contract: MGC help desk	COMMENT	
Email: cgapis-r@mail.nih.gov		
Tissue Procurement: Gilbert Smith, Ph.D.		
CDNA Library Preparation: Life Technologies, Inc.		
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINE)		
DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305		
Web Site: <a href="http://www.shgc.stanford.edu">http://www.shgc.stanford.edu</a>		
Contact: (Dickson, Mark) mcd@paxil.stanford.edu		
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.		
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium(LINE) at: <a href="http://image.llnl.gov">http://image.llnl.gov</a>		
Series: IRAK Plate: 11 Row: B Column: 23		
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 27229018.		
Location/Qualifiers		
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IEVETTISROSEIQKFLADCKEALLEKEFELVQKCSFASHIHYHYNQAEELL		
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CDS		
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QY		
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	DB	9
	Length	3040
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	Conservative	0
	Mismatches	380
	Indels	30
	Gaps	8
	QY	158 CGAGGCCAGGCCGGCTCTCCCGGGCTCTCCCGGGCCACGCCATGCCGG 227
	Db	1 CGAGCCGCCGGCTCTCCCGGTGCGCTCCGGAGGTGCGCATGCTCGG 60
	QY	228 GCGCGAGGGTGAACCGCTCACGGAGAACCTACGGGAATGTTAGAACAGTCAA 287
	Db	61 GCCGGAGAGGTGAACCCGCTCACGGAGAACCTACGGGAATGTTAGAACAACTCAA 120
	QY	288 TCCCTGGCTGGAGAATTATAAACCTCGGAAATAATTATGAGAAGGTGAAACGCTAT 347
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	QY	601 AGCCCTCTGAGAGAGAGCGCTCTGCTCTCGTGTGAGATGTGAGATGTCCTTGC 660
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	QY	661 CAGTCAGATACACTACATCACATGAGTCCTGAGACTTAATCTGAGTCCTGCCCC 720
	Db	888 GGGGAGAGAGCTGTGATGCCACAAAGTCCAGAGAATCTGAGATGAA 947
	QY	721 GGGGAGAGAGCTGTGATGCCACAAAGTCCAGAGAATCTGAGATGAA 780
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RESULT		ORGANISM
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LOCUS	BC089216	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Muridae; Rattus; Rattus
DEFINITION	Rattus norvegicus similar to RIKEN cDNA 1300006M19 (predicted), (bases 1 to 2141)	
ACCESSION	BC089216	REFERENCE AUTHORS
VERSION	BC089216.1	1 1021 TCCGAGCTTACAGGATGAGCTTGGTGCACAGGGACTGGAATGATGAGAGCGAA 1244
KEYWORDS		1020 1245 AGTGTAGAGCCTCTCCGGCACACTGGCTGAACTGAGCTTACTGAGCTTGCACA 1304
SOURCE	Rattus norvegicus (Norway rat)	1080 1081 GGTGAGAGACCATCTTCCCTACAGGGCTGGCAACATAGACCTACTGAGCTTGCACCA 1140
		1140 1305 GGAGAGATGTCATACGGCTGCTACCCGGAGGAGATGCTGAGCTGAGAGAGA 1364
		1141 GGGGATGCTCTCACACTGCTCATCTGGAGAGAGACCTGAGGGAGCA 1200
		1365 CGAGCTGTCAGGGAGGGGTTGTCCTGAGAGAGACCTGCTACAGGAAGTGTGAGAGAA 1424
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		1425 TGTGACAGAGAGTGGCTGCTGAGAGAGAGCTGAGAGAGAGCTGAGAGAGA 1484
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		1485 CGTGAACCTGTCGAGAGATAGCTGAGCTGAGAGAGAGCTGAGAGAGCT 1544
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		1545 GTCGATGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAC 1598
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REFERENCE	JOURNAL	AUTHORS	COMMENT	TITLE	FEATURES	source
1	(bases 1 to 2064)	Boardman, P.E., Bonfield, J.K., Brown, W.R.A., Carder, C., Chalk, S.E., Croning, M.D.R., Davies, R.M., Francis, M.D., Graham, D.V., Hubbard, S.J., Humphray, S.J., Hunt, P.J., Maddison, M., McLaren, S.R., Niblett, D., Overton, I.M., Rogers, J., Scott, C.E., Taylor, R.G., Tickle, C., and Wilson, S.A.	Submitted (29-MAR-2004) Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: chickst@bms.uni-st.ac.uk	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
2	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	On Apr 1, 2004 this sequence version replaced gi:41634092.	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
3	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	A-trimmed, EcoRI-NotI cut cDNA was then ligated into the vector.	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
4	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Vector: pBluecript II KS(+); Site_1: EcoRI; Site_2: NotI Host: Escherichia coli DH10B.	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
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13	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	ORIGIN	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
14	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Query Match	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
15	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Best Local Similarity 69.6%; Score 745.2; DB 5; Length 2064;	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
16	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Matches 1088; Conservative 0; Mismatches 443; Indels 27; Gaps 5;	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
17	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 206 CCGCCGAGCCAGTGTCCGGGGAGCCCGAGGAGGTGACCGGCTCAAGAGACCCPACC 265	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
18	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 30 CCCCGGACCATGTCGGGACGCCGAGGTGACAGAAGCTAACAGAGACCTTACA 89	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
19	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 266 GGAATGTTAGGAGACTCAATCTGGCTCGAAATTAAACCTGGGAATT 325	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
20	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 90 AAATGTTATGGAGCAATTCAATCCAGAACTGGAAATTAAACTTGGAAAGATT 149	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
21	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 326 ATCAGAAAGCTGTAAACGCCATCGCTATGATCTCTGGAGAAGAAAGCC 385	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
22	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 150 ACCGAAAGCTGTATACTGTTAGCTGAGTCACTAGACAGCTGTGCGCAA 209	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
23	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 386 ATATCGGGAGAGTGGCACTGGTCCCGGTGCACTGAAGCTGGACATGTCCTCATAG 445	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
24	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 210 AGATTTGGGGATATTCAGCAGATTCACCTGTCTTAAGAGTTAGGGCAAGTCCTGG 269	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
25	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 446 AGATTCAAGTACCCACAGAAACTAACAGAGAGCTGTGATGAAATTAAATTCC 505	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
26	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db -270 AATTTCAGAACACACAGAACTTAACGAGCTCGAGGAAAGTTAAAGATTTC 329	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
27	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 506 ACAAGAGATTATCCATAGCTGCTGGAGAAGAGATACTGAGCTGGTGAATAATTATGAGC 565	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
28	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 330 ATATGAAATTATCTGACTGGAGAAGAAACGAACTGGTGTAAATCATGAGC 389	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
29	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 566 CAACTTAAAGAATACCAACAGAACACAAGATAATTAGTGTCTTGGAAATCC 625	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
30	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 390 CGACTTAAAGAGCTTACCAACGAGAACAGAAGTAATTGGTTCCCTGGAGAGTC 449	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
31	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 626 AAGCTGAGTTGAGAGATCAGAGAGAAAGCCAGGCCAACCAATCAATAG 685	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
32	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 450 AGGCTGAGCTGAAAAAATCCGAGGAAAGCCAGCACCAATTAATGAC 509	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
33	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 686 AACACAAAGAAATGAGATGAGGAGACCGGTACTCTGTCAGGTGAATCCGA 745	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
34	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 510 AGCATAGGAATGGAGATTGGAAACCGTGGCTCGACAGTCATCGAGAT 569	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
35	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 746 TCAATGCGAGATGGTGTGAAAGAGGCTCTGCTGGAGAGAGGCCGCTGCTGTTCTGG 805	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
36	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 570 TATGCTGAGGTGTGAGAGACCTCTACTTGAGAGAAAGAGATCTGTTCTGG 629	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
37	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 806 TGTATAGACTGAGCTTGAAACACATATATCACTTACAGTCAGTCAGAC 865	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
38	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 866 TACTGATTCGAGCTGCTGGCTGGAGACCTGTTGAGTCATCAAGTGGAC 925	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
39	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 896 TCTCAAGGCCAGCTGGCTGGAGAAATCTACAGCTGAGTCACCAAGTCAGTC 949	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
40	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 926 AGAAATCTGATATGATCGAGAGATAAGACCCAGCTCTACCCGCTGCTGAA 985	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
41	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 930 AAAAGTCAAATGATGATGGAGAAATAAGACACCTGGTTCACCTCCATACAGAA 809	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
42	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 946 TTCTAAATGCTTACCAAGAGATGGCCAGCTTGTGAGATGAGATTTTGTGCTC 1105	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
43	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 956 TGTCTGGCTGCTGGAGGAGCTGGTGTGAGCTGAGCTGAGTCAGTC 1109	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
44	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1106 TGTCTGGCTGCTGGAGGAGCTGGTGTGAGCTGAGTCAGTC 1162	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
45	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 959 TGTCTGGCTGCTGGAGGAGCTGGTGTGAGCTGAGTCAGTC 869	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
46	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 960 TGTCTGGCTGCTGGAGGAGCTGGTGTGAGCTGAGTCAGTC 989	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
47	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 990 ACCCAGGAGAGATCTAGATGTTGCCAGTGTGAGTCAGTC 1049	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
48	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1223 TCAACATGATGAGAGCAGCAAGTGTGCTCCAGGAGGATCCACCGCCG 1282	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
49	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1050 TAATATATGAAAGGGAGAATGAGTGGACATCTTCACATCTGGAAATACA 1109	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
50	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1283 AGACCTACTCGCTTGACGGAGATGTCATCGCGCTGTCATCCGGAGAG 1342	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
51	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1110 AGACATPACTTGCTTGCACAGGAGATACCATCATRACTCTGTGATCTGAAAGA 1169	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
52	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1343 ATGGCTGCTATGGAGACAGCTGGTCACTTACAGAATGAGTCAGTC 1402	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
53	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1170 ATGGCTGCTTACGGGAGACTGAGCTGAGTCAGTC 1229	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
54	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1403 ATACGAAGTGTGGAGAAGAAATGAGACAGAGCAGTGTGAGCTGGCCAGGCCAGGCCAGGGCC 1462	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
55	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1230 ATACAGACACATAGAGAATAGAAGAAAGCTGGCTGGAGGAGATGGCTGG 1286	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
56	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1463 CACCACTGGAGGAGCTGGAGCTGGAGTGTGAGTCAGTC 1522	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
57	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1287 CGCCGGTTAGAGTGTAGCTGAGTCAGTC 1346	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
58	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1523 CACCGAGACTTGGAGTGTGCTGGAGGAGCTGGAGGAGATGGCTGG 1582	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
59	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1347 CGCCAGACTATCTGGTGTGAGTCAGTC 1391	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
60	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1583 CGCGGAGCACATCCACCTTTAGGCCCCAGCGCTCAAGCCAGGCCAGGGCTCTAA 1640	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
61	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1392 CCAAGGTACTGTGCTGAGTCAGTC 1448	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
62	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1641 -CGATGCCAACGGACTCGAACCGGCTTCTGAGGAAAGACCGCTTGGCACTG 1699	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
63	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1449 CCGACATGCTGAGTCAGTC 1508	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
64	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	QY 1700 TGTACTCGCCGACTGTGAGTGTGAGTCAGTC 1757	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
65	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	Db 1509 TGAACCTGAGCAACAGTAACAAATGAGCAACCCATTATCGATGACAGA 1566	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
66	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	RESULT 10			
67	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	AK074419 Locus AK074419 Definition Homo sapiens mRNA FLJ23839 linear Version PRI 12-SEP-2003	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
68	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	DEFINITION Homo sapiens cDNA FLJ23839 transcript	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
69	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	ACCESSION AK074419	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST
70	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	KEYWORDS oligo capping; fis (full insert sequence).	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST	BBRC/Dundee/Nottingham/Sanger/Sheffield/UNIST

SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
AUTHORS	Watanae, K., Kumagai, A., Itakura, S., Yamazaki, M., Tashiro, H., Nakamura, Y., Isogai, T. and Sugano, S.
TITLE	NEO human cDNA sequencing project
JOURNAL	unpublished
REFERENCE	1. Watanabe, K., Kumagai, A., Itakura, S., Yamazaki, M., Tashiro, H., Nakamura, Y., Isogai, T. and Sugano, S.
AUTHORS	Sugano, S., Suzuki, Y., Ota, T., Obayashi, M., Nishi, T., Shibahara, T., Tanaka, T., Direct Submission
TITLE	Direct Submission
JOURNAL	Submitted (14-FEB-2002) Sumio Sugano, Institute of Medical Science, University of Tokyo, Laboratory of Genome Structure, Human Genome Center; Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8339, Japan (E-mail: fcdna@ims.u-tokyo.ac.jp), Tel: 81-3-5449-5286, Fax: 81-3-5449-5416
COMMENT	NEO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction, 5', & 3'-end one pass sequencing: Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).
FEATURES	Location/Qualifiers
source	1. -2296 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="KAT02564" /cell_line="KATO III" /cell_type="signet-ring cell carcinoma" /clone_lib="KAT" /note="cloning vector: PME18SPL3"
ORIGIN	
Query Match	32.0%; Score 671; DB 8; length 2296;
Best Local Similarity	100.0%; Pred. No. 2.8e-106;
Matches	671; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1360 GAAACGAGCTGTCCAGGCCAGGGTTGTTCCCTGCTGCTACAGAAGTGCCTGAA 1419
Db	1 GAAACGAGCTGTCCAGGCCAGGGTTGTTCCCTGCTACAGAAGTGCCTGAA 60
QY	1420 GAAATGAGAGAGAGTGTCTGCCAGCCACACAGTGAGAACATC 1479
Db	61 GAAATGAGAGAGAAGCAGTGACCTCCAGGAGCTGATCC 120
QY	1480 AGCACCGTGACTGTGTGAGATAGCAGTGTGTCATCCCCAACCGACTACTTGAA 1539
Db	121 AGCACCGTGACTGTGTGAGATAGCAGTGTGTCATCCCCAACCGACTACTTGAA 180
QY	1540 TGCCTTGCCATGGGACAGCTGGCCAGAGGAGATGGCCAGGACATCCACC 1599
Db	181 TGCCTTGCCATGGGACAGCTGGCCAGAGGAGATGGCCAGGACATCCACC 240
QY	1600 TTAAGGCCCAAGCTTCAAGCCGAGACCCGGCTCTAACGATCCAAAGGGACTGCA 1659
Db	241 TTAAAGGCCCAAGCTTCAAGCCGAGACCCGGCTCTAACGATCCAAAGGGACTGCA 300
QY	1660 AGGCCCTTCTCAAGGGAGAACCCCTTGCCACTGTGAAGACTCCGCCACTGTC 1719
Db	301 AACGCCCTTCTCAAGGGAGAACCCCTTGCCACTGTGAAGACTCCGCCACTGCA 360
QY	1720 AGCAATGATCGCTCGCACCCATCTCGATGAGGACAGCCAGACTCTCCGGGCC 1779
Db	361 AGCAATGATCGCTCGCACCCATCTCGATGAGGACAGCCAGACTCTCCGGGCC 420
QY	1780 TCTCGGTCTCCCTGCGATGATGGCGCACTCTGCGACGCTGCTGCG 1839
Db	421 TCTCGGTCTCCCTGCGATGATGGCGCACTCTGCGACGCTGCTGCG 480
RESULT	11
LOCUS	BC06176
DEFINITION	Xenopus laevis hypothetical protein MGC68822, mRNA (cDNA clone MGC:68822 IMAGE:4313564), complete cds.
ACCESSION	BC06176
VERSION	BC06176.1 GI:38197625
KEYWORDS	MGC.
SOURCE	
ORGANISM	Xenopus laevis (African clawed frog)
AUTHORS	Klein, S. L., Strausberg, R. L., Wagner, L., Pontius, J., Clifton, S. W. and Richardson, P.
TITLE	Genetic and genomic tools for Xenopus research: The NIH Xenopus Initiative
JOURNAL	Dev. Dyn. 225 (4), 384-391 (2002)
PUBMED	12454917
REFERENCE	2 (bases 1 to 3616)
AUTHORS	Strausberg, R. L., Feingold, E. A., Grouse, L. H., Derge, J. G., Schuler, G. D., Klausner, R. D., Collins, F. S., Wagner, L., Shemmen, C. M., Schaefer, C. F., Blat, N. K., Altschul, S. F., Zeeberg, B., Buetow, K. H., Schaefer, C. F., Blat, N. K., Hopkin, R. F., Jordan, H., Moore, T., Max, S. J., Wang, J. J., Hsieh, F., Datchenko, L., Marusina, K., Farmer, A. M., Rubin, G. M., Hong, L., Stapleton, M., Soares, M. B., Bonaldo, M. F., Casavant, T. L., Scheetz, T. E., Brownstein, M. J., Usdin, T. B., Toshiyuki, S., Carninci, P., Prange, C., Rata, S. S., Loqueland, N. A., Peters, G. J., Abramson, R. D., Mulilab, S. J., Bosak, S. A., McEwan, P. J., McKernan, K. J., Malek, J. A., Gunatilake, P. H., Richards, S., Worley, K. C., Hale, S., Garcia, A. M., Gay, L. J., Rulyk, S. W., Villalon, D. K., Muzny, D. M., Sodergren, E. J., Lu, X., Gibbs, R. A., Fahy, J., Helton, E., Kettman, M., Madan, A., Rooriges, S., Sanchez, A., Whiting, M., Madan, A., Young, A. C., Shevchenko, Y., Bouffard, G. G., Blakesley, R. W., Touchman, J. W., Green, B. D., Dickson, M. C., Rodriguez, A. C., Grimwood, J., Schmutz, J., Myers, R. M., Butterfield, Y. S., Krzynwinski, M. I., Skalska, U., Smalius, D. B., Schnurch, A., Schein, J. E., Jones, S. J. and Marra, M. A.
TITLE	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
PUBMED	1247932
REFERENCE	3 (bases 1 to 3616)
AUTHORS	Klein, S. and Strausberg, R.
TITLE	Direct Submission
JOURNAL	Submitted (105-NOV-2003) National Institutes of Health, Xenopus Gene Collection (XGC), National Institute of Child Health and Human Development, 6100 Executive Boulevard, Room 4B01, Rockville, MD 20892-7510, USA NIH-MGC Project
REMARK	Contact: XGC help desk Email: cgaps-r@mail.nih.gov
COMMENT	Tissue Procurement: Dr. Igor David CDNA Library Preparation: Life Technologies, Inc.

Qy	448	ATTCGAGTACCCACAGAACTCAGCAGAGGCTCTGATGAAATTAAATTCCAC	507
Db	346	ATTTCATCGTCAGAAAGCTGATGACACTTAGAGAAATTAAATTCCAC	405
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Qy	688	CACAMGAATGAGTATGAGCTGAGACCGCTACTCTGTCAGAGTGAATTCAGAAATTC	747
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Db	808	GATAACACTCTGCTCTGCAACCCATACATTATATCACTTACAGTCAGTCAGACTA	867
Db	706	GACAAACACTGCACCTCTCGAAATTATCACTTATTCACGTCAGGCTGAGACTA	765
Qy	868	CIGAAATTCACACTGCTCGTGGCGGAGACTGCTGTTGATGCTTCAGATGCGAG	927
Db	766	CTCACTCTCAAGCTGCCAAGTGGCAAGAGACAGTCAGTGTAGTACATCTCACTGAGAC	825
Qy	928	AAATATCGAAATATGATGTCGAAGAAATAAGACCCCCCTTACCCCGCTCTCGGAACT	987
Db	826	ACGTCGTTAATATTCAGGACCTGAAACTCCGTCAGCTCCGTCACACCAACTCTGTTCC	885
Qy	988	CCTCAGSCTTACCCATGATGCCAGAGCAATGTTAGAAACATTAGACACCCCT	1047
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Qy	1048	TCTAAATCTACCAAGATGCCCGCTCTCGAGCAGAGCATATACAGTCCTG	1107
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Db	1237	GATCGCTGCTGCTGAGACGATGAACTGAGCTACACAGGTTGGTCTCCATCATCC	1296
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Db	181	GGCTGGAAGATCTACTACCGCAAGATGGGGATATCACCGAGATTCACC	240	AUTHORS NIH MGC Project
Qy	414	CGTGTCACTGACTGGACATGCTCTGAGATTCAAGTACCCAGAAGCTAA	473	CONSRNM DIRECT SUBMISSION
Db	241	TGTTCCTAAGAGTTAGGCCGACTCTGGGAATTCAAGAACCCAGAACTAA	300	TITLE SUBMITTED (02-APR-2004) National Institutes of Health, Mammalian
Qy	474	CGAGACTCTCTATGAAATTATTAAAGATTCAAGAGGATTCATGAGCTGGAGAA	533	COMMENT NIH-MGC Project (MGC), Bethesda, MD 20892-2590, USA
Db	301	CGAGACTCTCTATGAAATTATTAAAGATTCAAGAGGATTCATGAGCTGGAGAA	360	CONTACT: MGC help desk
Qy	534	GAAGATAGACTTGCGTGAAATATGAAGCAACTCTAAAGATACCGAGAACAA	593	EMAIL: cgapbs-r@mail.nih.gov
Db	361	GAAGATAGACTTGCGTGAAATATGAAGCAACTCTAAAGATACCGAGAACAA	420	Tissue Procurement: Leonard I. Zon, M.D.
Qy	594	CGAGATAATTAGACTTGGAGAATCCAACTGAGTGAGAGATCAGAGGAA	653	CDNA Library Preparation: Invitrogen Corp
Db	421	CGAGATAATTAGACTTGGAGAATCCAACTGAGTGAGAGATCAGAGGAA	480	CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
Qy	654	AGCCAGAGGAAGCCAAACGACTCTAAATAGACAAAGAAATTAGATGAGAC	713	DNA Sequencing by: Sequencing Group at the Stanford Human Genome
Db	481	AGCCAGAGGAAGCCAAACGACTCTAAATAGACAAAGAAATTAGATGAGAC	540	Center, Stanford University School of Medicine, Stanford, CA 94305
Qy	714	CGTACTTCTGCTGAGATCCGAGTCTGGAGAGTCAGGTGAGGTGAAAGAGAA	773	Web site: <a href="http://www-shgc.stanford.edu">http://www-shgc.stanford.edu</a>
Db	541	CGTGTGACTCTGAGACAGACTGAGATCTGGAGTCTGGAGTCTGGAGAC	600	Contact: (Dickson, Mark) <a href="mailto:mcdd@paxil.stanford.edu">mcdd@paxil.stanford.edu</a>
Db	774	GCTGTGAGAGAGGGCTCTGCTCTGGTGAATAGACTGGCTGCAAGAGCT	833	Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.
Qy	601	ACTTGAGAAAGAGATCTGTTCTAGTGACAGACTGCAGTTAACCCAGCA	660	7. 660
Qy	834	CATACATATTATCCTACTCTCT 858		Clone distribution: MGC clone distribution information can be found
Db	661	CATGCACTCTATCACCTCTAGTGT 685		through the I.M.A.G.E. Consortium LIMS at: <a href="http://image.lnl.gov">http://image.lnl.gov</a>
RESULT 14				Series: IAK Plate: 165 Row: b Column: 19
LOCUS	BC68330	2563 bp mRNA linear VRT 30-MAR-2005		This clone was selected for full length sequencing because it
DEFINITION	Danio rerio	BA11-associated protein 2-like 1, mRNA (cDNA clone MG:85624 IMAGE:6525249), complete cds.		passed the following selection criteria: matched mRNA gi: 38708008.
ACCESSION	BC68330			Location/Qualifiers
VERSION	1	GI:46249678		1. 2563
KEYWORDS	MGC.			/organism="Danio rerio"
SOURCE	Danio rerio (zebrafish)			/mol type="mRNA"
ORGANISM	Danio rerio			/db_xref="taxon:7955"
AUTHORS	Bukeryota; Metzora; Chordata; Craniata; Vertebrata; Buteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.			/clone="MGC:85624 IMAGE:6525249"
REFERENCE	1 (bases 1 to 2563)			/tissue type="Kidney, zebrafish"
FEATURES				/clone_id="NCI_Cgap_2Kid1"
SOURCE				/lab_host="DH10B"
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			1. 2563	/note="Vector: pCMV-SPORT6.1"
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				/note="Synonyms: cb1023, zgc:85624, loc55971"
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				ELEKTKDMDTQYMTKPFYKQYSEKQKQDPLKQDLSQADLKKRURRSQKRSKYSKLEN
				RCMTEISSQDQTMFLPQFQDLSQADLKKRURRSQKRSKYSKLEN
				SLKHTPSQPLMSFQSBKPSLPSBQYSPDLSQDLSQADLKKRURRSQKRSKYSKLEN
				IPNSKMEPSFSSHLDLPEQOBEDSEVEEVLPPDPDISDSSRDRPIKSTPSSQSTVS
				LANGHSMPPFLGGGNPFAVTWLRPFTVNDRSAPI"
ORIGIN				
				Query Match 18.3%; Score 382.6; DB 5; Length 2563;
				Best Local Similarity 60.0%; Pred. No. 3.2e-56;
				Matches 712; Conservative 0; Mismatches 439; Indels 36; Gaps 3;
Qy	217	ATCTCCGGGGCCCGAGGAGGTGACCGGAGCTTCCGGAGATGTATG	276	
Db	139	ATGCTCTGAGCCCTGGAGACCTGAGAACCTACCGAGAGATGATGATG	198	
Qy	277	GAACAGCTCAATCTGGCTGGAGATTAACTGGGAAATTAGAGAGCT	336	
Db	199	GAACAGCTCAACCCAGGACTTGGGAGCTGGTAACTGGGAGAGATCTAGAGATCA	258	
CONTRM	Mammalian Gene Collection Program Team			
TITLE	Generation and initial analysis of more than 15,000 full-length			
JOURNAL	human and mouse cDNA sequences			
PUBLMED	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)			
REFERENCE	2 (bases 1 to 2563)			



Db	396	GTGCAACAGAACGCCAAATGGAGATGGAGGAGTTCAGAGTTCCACAAAGAGCTC	455
Qy	517	ATCCATGAGCTGAGAGAGAGAGTAACTTGGCTGAAATTATGAAACCACTTAAA	576
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Qy	577	AGATACAAACAGAACACAGAACTAAAGCAAGTAAATGAGCTTGGAGAAATCCAGCTGAGTGTG	636
Db	516	AGATACACTGAGAACACAAATAAGCAAGACTTCTGAGCAAAATCACAGCTGACCTG	575
Qy	637	AGAGAGATCGAGGAAAGCCAAAGGAAGCCGAAGGAAACTCAATGAGAACAGAA	696
Db	576	AGAGAGACTACGAGAACAGAAAGTCAAGGA--AACATCGTCAATATGAGATCAAGAA	632
Qy	697	ATTGAGTATGTTGAGACCGTAACTTCTGTTAGAGAAATTCTGAGAATTCAGAT	756
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Qy	757	CCTGCAAGGGCTGCTTGAAGAGAGGGGCTTCTCTTCTGTTGAGTATGAC	816
Db	693	GGATGPAAGGGCTTACTAGAGAGAAAGGAGGTTTCTCTGTTGAGTACATGATCC	752
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Qy	997	TGACCCATGATGAGAGAGGAACTGATGTTAGAAAGATTGACACCCCTTCTAAATGC	1056
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Qy	1057	TGACCCAAAGATACTCCCGCTCTTCAGGCAGCATATACAGTCCTTGATGATG	1116
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Search completed: March 20, 2006, 16:31:42  
 Job time : 10294 secs

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OM nucleic - nucleic search, using SW model

Run on: March 20, 2006, 13:44:26 : Search time 2596 Seconds (without alignments)

1882.610 Million cell updates/sec

Title: Perfect score: US-10-801-292-1

Sequence: 1 ctctctctgttctcagaagaa.....aaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY\_NUC Gapop 10.0 , Gapext 1.0

Searched: 8023312 seqs, 1165852854 residues

Total number of hits satisfying chosen parameters: 16046624

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

1 357.4 17.1 516 9 US-11-021-492-430 Sequence 430, APP

2 266.6 12.7 2078 12 US-11-128-061-1100 Sequence 1100, APP

3 266.6 12.7 2078 12 US-11-128-049-1100 Sequence 1100, APP

4 209.6 10.0 303 12 US-11-128-061-2130 Sequence 2130, APP

5 209.6 10.0 303 12 US-11-128-061-5772 Sequence 5772, APP

6 209.6 10.0 303 12 US-11-128-049-2130 Sequence 2130, APP

7 209.6 10.0 303 12 US-11-128-049-5772 Sequence 5772, APP

8 147.2 7.0 640 6 US-09-935-062A-720687 Sequence 730687, APP

9 81.4 3.9 1395 8 US-10-935-052A-111 Sequence 111, APP

10 79.4 3.8 1400 12 US-11-128-061-4742 Sequence 4742, APP

11 79.4 3.8 1400 12 US-11-128-049-4742 Sequence 4742, APP

12 79.4 3.8 2036 8 US-10-936-217A-8 Sequence 8, APP

13 78.8 3.8 1400 12 US-11-136-527-7203 Sequence 7203, APP

14 78.8 3.8 1967 12 US-11-136-527-3107 Sequence 3107, APP

15 78 3.7 2120 8 US-10-639-742-163 Sequence 163, APP

16 77.8 3.7 932 9 US-11-031-206-65 Sequence 65, APP

17 77.4 3.7 1133 8 US-10-663-794-1 Sequence 794, APP

18 76 3.6 1400 12 US-11-136-527-6433 Sequence 6433, APP

19 76 3.6 3801 12 US-11-136-527-2337 Sequence 2337, APP

20 75.8 3.6 2255 9 US-11-036-568A-2260 Sequence 2260, APP

ALIGNMENTS

RESULT 1

US-11-021-492-430

Sequence 430, Application US/11021492.

Publication No. US200601947A1

GENERAL INFORMATION:

APPLICANT: Albin, Alejandro

APPLICANT: Zambrivcic, Brian

APPLICANT: Sands, Arthur T.

INVENTION: Novel Mutated Mammalian Cells and Title of Invention: Animals

FILE REFERENCE: LEX-0388-USA

CURRENT APPLICATION NUMBER: US/11/021,492

CURRENT FILING DATE: 2004-12-23

PRIOR APPLICATION NUMBER: US 60/307,670

PRIOR FILING DATE: 2001-07-25

NUMBER OF SEQ ID NOS: 698

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 430

LENGTH: 516

TYPE: DNA

ORGANISM: Mus musculus

FEATURE: misc feature

NAME/KEY: misc feature

LOCATION: 40, 156, 175, 190, 215, 291, 344, 370, 431

OTHER INFORMATION: n = A,T,C or G

US-11-021-492-430

Query Match Best Local Similarity 83.9%; Pred. No. 7.2e-35; Matches 433; Conservative 0; Mismatches 80; Indels 3; Gaps 3;

Sequence 111, APP Score 357.4; DB 9; Length 516;

Sequence 4742, APP Score 4742, APP

Sequence 8, APP Score 8, APP

Sequence 7203, APP Score 7203, APP

Sequence 3107, APP Score 3107, APP

Sequence 163, APP Score 163, APP

Sequence 65, APP Score 65, APP

Sequence 794, APP Score 794, APP

Sequence 801, APP Score 801, APP

Sequence 330, APP Score 330, APP

Sequence 2599, APP Score 2599, APP

Sequence 285, APP Score 285, APP

Sequence 485, APP Score 485, APP

Sequence 3869, APP Score 3869, APP

Sequence 2433, APP Score 2433, APP

Sequence 7965, APP Score 7965, APP

Sequence 3385, APP Score 3385, APP

Sequence 2842, APP Score 2842, APP

Sequence 8, AppI Sequence 8, AppI

Sequence 3, AppI Sequence 3, AppI

Sequence 706, APP Sequence 706, APP

Sequence 2748, APP Sequence 2748, APP

Sequence 489, APP Sequence 489, APP

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 QY 906 TGTGGCCATCAAGTGGAGAAATCATGATAT 941  
 Db 481 TGTGGCCACAAAGTCCAGGAGAAATCATGATAT 516  
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 RESULT 2  
 US-11-128-061-1100  
 ; Sequence 1100, Application US/11128061  
 ; Publication No. US200600039581  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Melville, Mark W.  
 ; APPLICANT: Charlebois, Timothy S.  
 ; APPLICANT: Mounts, William M.  
 ; APPLICANT: Hann, Louane E.  
 ; APPLICANT: Sinacore, Martin S.  
 ; APPLICANT: Leonard, Mark W.  
 ; APPLICANT: Brown, Eugene L.  
 ; APPLICANT: Miller, Christopher P.  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS  
 ; FILE REFERENCE: 01997-027701  
 ; CURRENT APPLICATION NUMBER: US/11/128, 061  
 ; CURRENT FILING DATE: 2005-05-11  
 ; PRIOR APPLICATION NUMBER: US 60/570, 425  
 ; NUMBER OF SEQ ID NOS: 7285  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 1100  
 ; LENGTH: 2078  
 ; TYPE: DNA  
 ; ORGANISM: Cricetinae  
 ; US-11-128-061-1100  
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 Query-Match 12.7%; Score 266.6; DB: 12; Length 2078;  
 Best Local Similarity 59.2%; Pred. No. 5.3e-24; Mismatches 314; Indels 0; Gaps 0;  
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 QY 290 CCGGGCTGCAACTGAACTGGACATGTCCTGAGATGGATTCAGTACCCAAAGAAC 349  
 Db 137 CGACCCCTCGCACTCATCCATGGAGAACTGAGAAAGCCCTGGCAGGTC 196  
 QY 350 TCTGGAGGAAGCTTACAGTGGAGTGGCCAGATGGAGATGGCAGCTGGT 409  
 Db 197 CCTTCGCTGCAAGGCTTATGGATGCTCTGGAGACTGCGCAGGAGA 256  
 QY 410 CCCCGTGTCAACTGAACTGGACATGTCCTGAGATGGATTCAGTACCCAAAGAAC 469  
 Db 257 CGAGGGCTTCAAGGACTTGGGACCTCTTCCAGATGGCGAGTCACCCGAGA 316  
 ;  
 RESULT 3  
 US-11-128-049-1100  
 ; Sequence 1100, Application US/11128049  
 ; Publication No. US20060101513A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Melville, Mark W.  
 ; APPLICANT: Charlebois, Timothy S.  
 ; APPLICANT: Mounts, William M.  
 ; APPLICANT: Hann, Louane E.  
 ; APPLICANT: Sinacore, Martin S.  
 ; APPLICANT: Leonard, Mark W.  
 ; APPLICANT: Brown, Eugene L.  
 ; APPLICANT: Miller, Christopher P.  
 ; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR  
 ; FILE REFERENCE: 01997-027700  
 ; CURRENT APPLICATION NUMBER: US/11/128, 049  
 ; CURRENT FILING DATE: 2005-05-11  
 ; PRIOR APPLICATION NUMBER: US 60/570, 425  
 ; NUMBER OF SEQ ID NOS: 7285  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 1100  
 ; LENGTH: 2078  
 ; TYPE: DNA  
 ; ORGANISM: Cricetinae  
 ; US-11-128-049-1100  
 ;  
 Query-Match 12.7%; Score 266.6; DB: 12; Length 2078;  
 Best Local Similarity 59.2%; Pred. No. 5.3e-24; Mismatches 314; Indels 0; Gaps 0;  
 Matches 455; Conservative 0;  
 QY 230 CCGAGGGGTGACCGGCTCTCGAGGAGCACTACCGAAATCTGAACTGTCATC 289  
 Db 77 CGAGGGCTTCAAGGACTTGGGACCTCTTCCAGATGGCGAGTCACCCGAGA 136

QY 290 CTGAGCTGGAAATTAACTAACCTGGGGAAANTATGAGAAGCTGTAACCTATGA 349 ; TYPE: DNA  
 Db 137 CCACCTCGCAACTCATGCCATGGGGAGAACTACAGAAGAANGCCCTGGCAGGTGCA 196 ; ORGANISM: Cricetulus griseus  
 QY 350 TCCCTGGAGGAAAGCCCTTCTACCATGGAGCTGGCAAGATGGAGATTGCACTGGT 409 ; FEATURE:  
 Db 197 CCTTGGCTTCAAGGCTTTCATGCTCTTGCTTAAGAGTTGGGGAGCTGGCAAGA 256 ; NAME/KEY: misc feature  
 QY 410 CCCCGGTTAACGACTGGAGATGCTCATAGAGTTCAAGTACCAAGAACAAAC 469 ; LOCATION: (187)..(187)  
 Db 257 GCGAGGGCTTAAGGACTGGTGGAGCTTCCAGATGCGAGTCACCGGCGA 316 ; OTHER INFORMATION: n is a, c, g, or t  
 QY 470 TCAACGAGGTCTGTGAAATTAAATTCACAGAGATATCCAGAGATATTCATGAGCTGG 529 ; US-11-128-061-2130  
 Db 317 TCCGAACCAACTCGAAGAGGATGCTAAGCTTTCAGATGCGAGTCACAGCTGG 376 ; Query Match 10.0%; Score 209.6; DB 12; Length 303;  
 QY 530 AGAGAGAGATAGAACTTGAGCTGGTAATATGAGCAGACTCAAAGATAACAG 589 ; Best Local Similarity 83.1%; Pred. No. 4.3e-17; Matches 250; Conservative 0; Mismatches 50; Indels 1; Gaps 1;  
 Db 377 AACAGAAGGTTAGACTGGCTTCCAGGTTCTGAGTGTCTACTGAGAAATACAGGG 436 ; Db 1 CACTGAAATATGAGCAGACAGTCTTCAGCTGTCACAGCTGG  
 QY 590 AACAGAAGGTTAAATTAGCTTGAGGAGAATTCAGCAAGCTGAGTGAAGAGATGAGA 649 ; QY 734 AAATCCGAGAACATCAGTGTGAGTGTGCTGAGAAGGAGATGAGAAGAGGGCT 793  
 Db 437 AGCAGGAGGAGCAAGGAGGAGTGTCTGAGCAAGTCTGAGCTGAGAGCTCCCA 496 ; Db 61 AAATCCATAAGTTCATTCAGTGTGCTGAGAAGGAGCTGAGAAGAGGGCT 119  
 QY 650 GGAAGAGCCAGGAGCCAAACCACTCAATGAGACAAAGAAATTGAGTATGG 709 ; QY 794 TCGCTCTCTGTTGAGAAGACTGTGCTGCTTGCACAGAGATGAGTGTGAGACTG 853  
 Db 497 AGAGAGGAGCAAGGGAGCAGAACCTCTAGAGCTGAGAGCTGAGTACATGG 556 ; Db 120 TCGCTCTCTGTTGAGAAGACTGTGCTGCTTGCACAGAGATGAGTGTGAGACTG 179  
 QY 710 AGACCGTTACTTCCTGTCAGGTGAATTCAGAAATTCTGGAGATGGTGGAGAAGGG 769 ; QY 854 AGCTGCGAGACTACTGAACTTCAGGTGCCTGGCGAGGACCTGGTGTGATGCCA 913  
 Db 557 ATGCCATCGAACAGCAGGCTGAGCTGGAGACTAGTATCTGATGCTGAGACAG 616 ; Db 180 AGCTGCGAAATTACTTAATTCAGCTGCTGGAGGAGCTGGTGTGAGATGCCA 239  
 QY 770 CTCGTGTTGAGAGAAGAGGGCTCTCTGTTGAGTAAAGCACGCTTGTGAGCA 829 ; QY 914 TCAAGTGCAGAGAAATCATGAAATGAGTGAAGAAATAAGACCCAGCCTCTAC 973  
 Db 617 CACTCACCGAGAGCGGAGGAGGTCTCTGAGTGAAGAGCTGCTGAGCC 676 ; Db 240 CATAGGACCAAGAGAAATCATGAGACATGATGAGAAGGGATAAAACCCATCTCACAC 299  
 QY 830 ACCACATACATTATCACTACAGTCAGACTGAACTGAACTTCAGCTCCCTCGT 889 ; QY 974 C 974  
 Db 677 AGAACTCTGCTGCTTACCACTCCAGGSSCAAGGAGCTCTGCCAGAGCTGCCCTGT 736 ; Db 300 C 300

RESULT 4

US-11-128-061-2130

; Sequence 2130, Application US/11128061

; Publication No. US20060003958A1

GENERAL INFORMATION:

; APPLICANT: Melville, Mark W.

; APPLICANT: Charlebois, Timothy S.

; APPLICANT: Mounts, William M.

; APPLICANT: Hann, Louane E.

; APPLICANT: Sinacore, Martin S.

; APPLICANT: Leonard, Mark W.

; APPLICANT: Brown, Eugene L.

; APPLICANT: Miller, Christopher P.

; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS

; FILE REFERENCE: 01997\_027701

; CURRENT APPLICATION NUMBER: US/11/128, 061.

; CURRENT FILING DATE: 2005-05-11

; PRIOR APPLICATION NUMBER: US 60/570,425

; NUMBER OF SEQ ID NOS: 7285

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 5772

LENGTH: 303

TYPE: DNA

ORGANISM: Cricetulus griseus

FEATURES:

NAME/KEY: misc feature

LOCATION: (187)..(187)

OTHER INFORMATION: n is a, c, g, or t

US-11-128-061-5772

Query Match 10.0%; Score 209.6; DB 12; Length 303;

Best Local Similarity 83.1%; Pred. No. 4.3e-17; Matches 250; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

SEQ ID NO 2130

LENGTH: 303

QY 674 CACTCAATGACACAGAAGATTGAGTATGTGAGACCGTACTCTCGTCAGAGTG 733  
 Db 1 CACTGAATATGACACAGAAGATTGAGTATGTGAGACTCTCGTCAGAGTG 60  
 QY 734 AAATCCAGAAATTCACTTCAGATGGTCAAAAGAGGCTCTGCTGAAGAG 793  
 Db 61 AAATCCATAGTCACTTCAGATGGTCAAAAGAGGCTCTGCTGAAGAG 119  
 QY 794 TCGCTTCTGGTGTAGACTGCTGCTTCAACACATATATCACTAC 853  
 Db 120 TCGCTTCTGGTGTAGACTGCTGCTTCAACACATATATCACTAC 179  
 QY 854 AGTCTGAGAAGACTACTGAACTTCAGGCTCTGGCTGGAGAGCTGTGATCCA 913  
 Db 180 AGTCTGAAATTACTTAATTCACCTGTCGGAGGAGAACCTGTGAGATCCA 239  
 QY 914 TCAAGTGCAGAGAAATATCGAATATGATCGAAGAAATAAGACCCCAGCTCTAAC 973  
 Db 240 CATAAGCAGAGAAATATCGAAGTGAAGGATAAAACCCCATCTCAC 299  
 QY 974 C 974  
 Db 300 C 300

## RESULT 6

US-11-128-049-2130

; Sequence 2130, Application US/11128049

; Publication No. US20060010513A1

; GENERAL INFORMATION:

; APPLICANT: Melville, Mark W.

; APPLICANT: Charlebois, Timothy S.

; APPLICANT: Mounts, William M.

; APPLICANT: Hann, Louane E.

; APPLICANT: Sinacore, Martin S.

; APPLICANT: Leonard, Mark W.

; APPLICANT: Brown, Eugene L.

; APPLICANT: Miller, Christopher P.

; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR

; CURRENT APPLICATION NUMBER: US/11/128 049

; FILE REFERENCE: 01997\_027700

; CURRENT FILING DATE: 2005-05-11

; PRIORITY FILING DATE: 2004-05-11

; NUMBER OF SEQ ID NOS: 7285

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO: 5772

; LENGTH: 303

; TYPE: DNA

; ORGANISM: Cricetulus griseus

; FEATURE: misc feature

; NAME/KEY: misc feature

; LOCATION: (187)..(187)

; OTHER INFORMATION: n is a, c, g, or t

US-11-128-049-5772

## RESULT 7

US-11-128-049-5772

; Sequence 5772, Application US/11128049

; Publication No. US20060010513A1

; GENERAL INFORMATION:

; APPLICANT: Melville, Mark W.

; APPLICANT: Charlebois, Timothy S.

; APPLICANT: Mounts, William M.

; APPLICANT: Hann, Louane E.

; APPLICANT: Sinacore, Martin S.

; APPLICANT: Leonard, Mark W.

; APPLICANT: Brown, Eugene L.

; APPLICANT: Miller, Christopher P.

; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR

; CURRENT APPLICATION NUMBER: US/11/128 049

; FILE REFERENCE: 01997\_027700

; CURRENT FILING DATE: 2005-05-11

; PRIORITY FILING DATE: 2004-05-11

; NUMBER OF SEQ ID NOS: 7285

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO: 5772

; LENGTH: 303

; TYPE: DNA

; ORGANISM: Cricetulus griseus

; FEATURE: misc feature

; NAME/KEY: misc feature

; LOCATION: (187)..(187)

; OTHER INFORMATION: n is a, c, g, or t

US-11-128-049-5772

Query Match 10.0%; Score 209.6; DB 12; Length 303;  
 Best Local Similarity 83.1%; Pred. No. 4.3e-17; Matches 250; Conservative 0; Mismatches 50; Indels 1; Gaps 1;  
 Matches 250; Conservative 0; Mismatches 50; Indels 1; Gaps 1;  
 QY 674 CACTCAATGACACAGAAGATTGAGTCTGGAGACCGTACTCTCGTCAGAGTG 733  
 Db 1 CACTGAATATGACACAGAAGATTGAGTCTGGAGACCGTACTCTCGTCAGAGTG 60  
 QY 734 AAATCCAGAAATTCACTTCAGATGGTCAAAAGAGGCTCTGCTGAAGAG 793  
 Db 61 AAATCCATAGTCACTTCAGATGGTCAAAAGAGGCTCTGCTGAAGAG 119  
 QY 794 TCGCTTCTGGTGTAGACTGCTGCTTCAACACATATATCACTAC 853  
 Db 120 TCGCTTCTGGTGTAGACTGCTGCTTCAACACATATATCACTAC 179  
 QY 854 AGTCTGAGAAGACTACTGAACTTCAGGCTCTGGGGAGACCTGTGTGATCCA 913  
 Db 180 AGTCTGAAATTACTTAATTCACCTGTCGGAGGAGAACCTGTGAGATCCA 239  
 QY 914 TCAAGTGCAGAGAAATATCGAATATGATCGAAGAAATAAGACCCCAGCTCTAAC 973  
 Db 240 CATAAGCAGAGAAATATCGAAGTGAAGGATAAAACCCCATCTCAC 299  
 QY 974 C 974  
 Db 300 C 300





Job time : 2598 secs

; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO: 3107  
; LENGTH: 1967  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
; US-11-136-527-3107

Query Match 3.8%; Score 78.8; DB 12; Length 1967;  
Best Local Similarity 65.1%; Pred. No. 0.19; Mismatches 24; Indels 0; Gaps 0;  
Matches 82; Conservative 20; Mismatches 24; Indels 0; Gaps 0;  
;  
Qy 1971 CATTAAATATTTCTTCTATCTGTCAAGAACGTAACTTGTTCAATCTTA 2030  
Db 1821 CTTTGAWACATGKACTTCTGWTWYTCATTAAGTGTGAACCTPWNRMWHVNM 1880  
Qy 2031 AAAAAAAA..... 2090  
Db 1881 MMWWWWARAAWA..... 1940  
Qy 2091 AAAAAA 2096  
Db 1941 AAAAAA 1946

RESULT 15

US-10-689-742-163

; Sequence 163, Application US/10689742  
; Publication No. US20050250180A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M  
; APPLICANT: LaValle, Edward R  
; APPLICANT: Racie, Lisa A  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Merberg, David  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Spaulding, Vicki  
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
; FILE REFERENCE: 00766 000091.10  
; CURRENT APPLICATION NUMBER: US/10/689,742  
; CURRENT FILING DATE: 2003-10-22  
; PRIOR APPLICATION NUMBER: 09/746,783  
; NUMBER OF SEQ ID NOS: 231  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO: 163  
; LENGTH: 2120  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-10-689-742-163

Query Match 3.7%; Score 78; DB 8; Length 2120;  
Best Local Similarity 59.5%; Pred. No. 0.24; Mismatches 0; Indels 0; Gaps 0;  
Matches 132; Conservative 0; Mismatches 90; Indels 0; Gaps 0;  
;  
Qy 1875 CTGCTTAAGGAAATCATGCTTCTCTTCACTGACTTGCGTGCACAGTTCTGCCTT 1934  
Db 1887 CTATGAAATAATTAAGACTACTGGCTTGAGGGATGTGTCGAAATTTCCTCT 1945  
Qy 1935 AGATTAATGCTAATAGCTAATGCACTGCACTTCAATTTCTCTTCTTCTTCTT 1994  
Db 1947 ATGTAATAATGCTTAATGATTAATCTCCAGAATTAATTCCTCTTGTAC 2006  
Qy 1995 CTGTCAGAGAACAGTAACCTTGTTCAACTTTAA..... 2054  
Db 2007 TTTCGAAACATTAATGATTTGATCTGCTTA..... 2066  
Qy 2055 AAAAAA..... 2096  
Db 2067 AAAAAA..... 2108



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GenCore version 5.1.7

Om nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:55 ; (without alignments)

Search time 381 Seconds

9778.922 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096

Sequence: 1 ctcccttgctctcgaaagaa.....aaaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

**Database :**

Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/1\_COMB.seq:\*

2: /cgn2\_6/ptodata/1/ina/5\_COMB.seq:\*

3: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/H\_COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/PECTUS\_COMB.seq:\*

7: /cgn2\_6/ptodata/1/ina/PE\_COMB.seq:\*

8: /cgn2\_6/ptodata/1/ina/RB\_COMB.seq:\*

9: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query	Match Length	DB ID	Description
1	259.6	12.4	2080	2	US-08-878-563A-2
2	259.6	12.4	2080	3	US-09-270-117-2
3	259.6	12.4	2080	3	US-09-046-572-2
4	241.6	11.5	2328	3	US-09-046-572-4
5	82.8	4.0	997	3	US-09-907-794A-376
6	82.8	4.0	997	3	US-09-905-125A-376
7	82.8	4.0	997	3	US-09-902-775A-376
8	82.8	4.0	997	3	US-09-906-700-376
9	82.8	4.0	997	3	US-09-903-603A-376
10	82.8	4.0	997	3	US-09-904-920A-376
11	82.8	4.0	997	3	US-09-909-664-376
12	82.8	4.0	997	3	US-09-905-175A-376
13	82.8	4.0	997	3	US-09-906-618-376
14	82.8	4.0	997	3	US-09-906-646-376
15	82.8	4.0	997	3	US-09-904-462-376
16	82.8	4.0	997	3	US-09-902-736A-376
17	82.8	4.0	997	3	US-09-906-722A-376
18	81.2	3.9	1570	3	US-10-012-231A-291
19	81.2	3.9	1570	3	US-10-015-389A-291
20	81.2	3.9	1570	3	US-10-006-768A-291
21	81.2	3.9	1570	3	US-10-015-671A-291
22	81.2	3.9	1570	3	US-10-015-393A-291
23	81.2	3.9	1570	3	US-10-011-633A-291
24	81.2	3.9	1570	3	US-10-006-041A-291

**ALIGNMENTS**

RESULT 1

US-08-878-563A-2 ; Sequence 2, Application US/08878563A

Patent No. 5891674

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Lal, Preeti

APPLICANT: Shah, Purvi

TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

ZIP: 94304

COUNTY: USA

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

OPERATING SYSTEM: DOS

SOFTWARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/878.563A

FILING DATE: Filed Herewith

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0323 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 2080 base pairs

TYPE: nucleic acid

STRANDEDNESS: Single

TOPLOGY: Linear

IMMEDIATE SOURCE:

LIBRARY: BRSTNOT04

CLOSE: 918158

US-08-878-563A-2

Query Match 12.4%; Score 259.6; DB 2; Length 2080;

Best Local Similarity 59.2%; Pred. No. 1.6e-48;  
 Matches 442; Conservative 0; Mismatches 304; Indels 0; Gaps 0;

Qy 230 CCGAGGAGGTGAACCGGGCTTACGGAGAGCCCTACGGGATGATGAAACAGTCATC 289  
 Db 112 CAGAGGAGTGACCGGGCTTACGGAAATTCCTTAAGACCATCTGGGAGCTCAAC 171

Qy 290 CTGGGCTCAGAAATTAAATTAACCTGGGAAAAATTATGAGAAAGCTGTAACCTATGA 349  
 Db 172 CTACCTCTGGAACTTCATGCCATGGGAGAAATTAGGAAGGACTGGCAGGTGA 231

Qy 350 TCCCTGGCAGGAAANGCTTACATGAGTGGGCAAGTGGCTGAGATGGCAGTGGT 409  
 Db 232 CGTATGCAACCAAAGCTTACCTTGACGCCCTGGTGAAGATGGGAGCTGGCCAGA 291

Qy 410 CCCCGTGTCAACTGACTGGAGATGTCATAGAGATTCAGTACGCCACAGAAC 469  
 Db 292 GCGGGCTTCAGAAAGACTGGAGCTGGCTTCAGTGGCTGAAGTCACGGCAGA 351

Qy 470 TCAACGAGACTCTGTGATGAAATTAAATTCACAAAGATATTCCATAGCTGCG 529  
 Db 352 TCCAGAATCAGCTGGAAAGAATGCTGAGTCTTACACAGAGCTTACGGCAGTGG 411

Qy 530 AGAAGAAGATAGAATCTGGCTGAATATATGAGCAGCTTACAAAGATACCAACG 589  
 Db 412 AGCAGAAGGGCTGGACTCTGGACTCCAGGTATCTGAGTCTGGCTGAAGAATACG 471

Qy 590 AACAAAGAAGATAATTAGAGCTTGGGAAATCTCAAGTGGAGATCAGAGATCAGA 649  
 Db 472 AGCAGAAGGCAAAGGGGCTGGAGCTGGCTTACGGCAGTCAGAGCTGGCTGCA 531

Qy 650 GGAAGAACGCAAGGAAGGCCAACGCACTCAATATGACCAAGAAATTAGTGGTGG 709  
 Db 532 AGAAGAGCCGGCAGCAAGAACTCTCAGAGTACTCGGACAGGAGCTCAGTACGG 591

Qy 710 AGACCGTGTACTCTGTGAGAGTGAATTCAGAAATTCTGAGATGTCAGTGGCTG 769  
 Db 592 AGCGCATCAGCAACAGCAGGGCGAGCTGGAGAAATTACGGTCCGACGCCAGACGG 651

Qy 770 CTCTGCTCTGAGAGGAGGGCTCTGTTCTGGTGTGATGAACTGGCTTACAGACGG 829  
 Db 652 CACTGACAGAGGAGCTGGCTCTGCTGAGAGTGAATTCAGAAATTCTGAGATGTC 711

Qy 830 ACCACATAGATATTATCAGCTTACAGTCTCAGACTACTGTAATTCCAAAGTGTCTG 889  
 Db 712 AGAACCTCCGGCTTACACTCCAGGGAAAGGAGCTGGTCCCTGAGAAGCTGGCTG 771

Qy 890 GGCCTGGAGAACTGTTGATGCCATCAAGAGAAATCATGATATGATGAG 949  
 Db 772 GGCACAGGCCCTGGCCGACGCCAGCAAGATCCGGGGCGCTGCAGCTCATGAGC 831

Qy 950 AATTAAGACCCCTCTACCCCC 975  
 Db 832 AGGGGCCACCAACGGGCCACCC 857

RESULT 2  
 US-09-270-117-2  
 Sequence 2, Application US/09270117  
 Patent No. 6263550  
 GENERAL INFORMATION:  
 APPLICANT: Hillman, Jennifer L.  
 APPLICANT: Lal, Preeti  
 APPLICANT: Shah, Purvi  
 TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE  
 NUMBER OF SEQUENCES: 3  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94304

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/270,117  
 FILING DATE:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 08/878,563  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 411-855-0555  
 TELEFAX: 415-845-4166  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2080 base pairs  
 LIBRARY: BRSTMOT04  
 CLONE: 91815B

US-09-270-117-2

Query Match 12.4%; Score 259.6; DB 3; length 2080;  
 Best Local Similarity 59.2%; Pred. No. 1.6e-48; Matches 304; Indels 0; Gaps 0;

Qy 230 CCGAGGAGGTGAACCGGGCTTACGGAGAGCCCTACGGGATGATGAAACAGTCATC 289  
 Db 112 CAGAGGAGTGACCGGGCTTACGGAAATGTCATAGACCATCTGGGAGCTCAAC 171

Qy 290 CTGGGCTGGAAATTAAATTAACCTGGGAAATATTGAGAAAGCTGTAACCTATGA 349  
 Db 172 CTACCTCTGGAACTTCATGCCATGGGAGAAATTAGGAAGGACTGGCTGAGTGG 231

Qy 350 TCCCTGGCAGGAAANGCTTACATGAGTGGGCAAGTGGCTGAGATGGCAGTGGT 409  
 Db 232 CGTATGCAACCAAAGCTTACCTTGACGCCCTGGTGAAGATGGGAGCTGGCAGA 291

Qy 410 CCCCGTGTCAACTGACTGGAGCTGGCATGTCCTCATAGAGATTCTGAGTGGCAGAAC 469  
 Db 292 GCGGGCTTCAGAAAGACTGGAGCTGGCATGTCCTGAGATGGGAGCTGGCAGA 351

Qy 470 TCAACGAGACTCTGTGATGAAATTAAATTCACAAAGGATATTCCATAGCTGCG 529  
 Db 352 TCCAGAATCAGCTGGAAATGCTGAGTCTTACACAGAGCTTACGGCAGTGGCTG 411

Qy 530 AGAAGAAGATAGAATCTGGGAAATATGAGCACTTAAAGATACCAACG 589  
 Db 412 AGCAGAAGCTGGAGCTGGACTTCCAGGATCTGAGTGGCTGGCTAAGAATACGACTG 471

Qy 590 AACAAAGAAGATAATTAGCTTGGAGAAATCCAAAGCTGAGTGGAGATCAGA 649  
 Db 472 AGCAGAAGGAAAGGCAAGGGGAGGCTGGAGAACTGAGTGGAGCTGGCTGAGCTGG 531

Qy 650 GGAAGAACGCAAGGAAGGCCAACGCACTCAATATGACCAAGAAATTGAGTGTGG 709  
 Db 532 AGAACGAGGCCAGCAAGAACTCTCAGAGTACTCGGACAGAGGAGCTGGCTGAGTGG 591

Qy 710 AGACCGTGTACTCTGTGAGAGTGAATTCAGAAATTCTGAGATGTCAGTGGCTGAGA 769  
 Db 592 AGCGCATCAGCAACAGGAGGGAGCTGGAGAAATTGAGTGGCTGGCTGAGCTGG 651

Qy 770 CTCTGCTCTGAGAGGAGGGCTCTGCTCTGCTGGTGTGATAGCACTGGCTTGGAA 829  
 Db 652 CACTGACAGAGGAGCTGGCTCTGCTCTGCTGGAGAGCAGGGCTGGCTGAGCAGTGG 711

RESULT 3  
US-09-046-572-2  
; Sequence 2, Application US/09046572  
; Patent No. 659935  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guebler, Karl J.  
; APPLICANT: Baughn, Mariah  
; TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/046,572  
; FILING DATE: Filed Herewith  
; CLASSIFICATION:  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0323-1 CIP  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 2:  
; LENGTH: 200 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BRSTNOT06  
; CLONE: 918158  
; US-09-046-572-2

Query Match 12.4%; score 259.6; DB 3; Length 2080;  
Best Local Similarity 59.2%; Pred. No. 1.6e-48; Mismatches 442; Conservative 0; Indels 0; Gaps 0; Matches 442; Db

QY 830 ACCACATACATTATATGACTTACGTCAGAACACTGATGTTCAAAGCTGCTCTCGT 889  
Db 712 AGAACTCCGCGCTTACCTCCAGGAAAGGAGCTGCTGCGGAGAGCTGCCCTG 771  
QY 890 GGGAGGAGACCTGTGTGATGCCATCAAAGTGCGAGAGAAATCATGATATGCGAG 949  
Db 772 GCGAACAGGCGCTTGCGACCCAGCAAGTCCGGAGATCCGGAGCTATGCGAC 831  
QY 950 AAATAAAGACCCAGGCTTACCCCC 975  
Db 832 AGGTGCCAGCAACGGCACCCTC 857

QY 470 TCAAGGAGGTCTGAGACTTGGAGCTGAGCTGCTCTCATAGAGATTCAAGTACCCAGAAC 469  
Db 352 TCCAGAATCAGCTGGAGAAATGCTGAGACTCTTCTCACACAGGACTGCTTACGAGCTGG 411  
QY 530 AGAAGAGATGAACTTGAGGAATATAGACGCAACTTAAAGATACCGAAC 589  
Db 412 AGCAGAGAGTGAGCTGACTCTTCCAGGTATCTGAGTCGCTGCTGAGCTTACCGACTG 471  
QY 590 AACACAAGATAATTAGAGCTTGTGAGAAATCCAACTGAGCTTGGAGAAATCCAACTGAGAA 649  
Db 472 AGCAAGAGGCCAAAGGCGACCCCTGGACAGTCAGCTGAGCTGAGCTGAGAGATCAGAA 531  
QY 650 GAAAGACGAGGAAGGCCAAAGGCAACTCAATATGAAACACAAAGAAATTAGAGTATGG 709  
Db 592 ACGSCATCAGCAACAGGAGCGCTGAGAAATTCAGTGTGCGACAGCTACAGACCC 651  
QY 770 CTCTGCTTGAGAGAGAGGGCTCTGCTTCTGGTGTAAAGACCTGTGCTTGC 829  
Db 652 CACTGACAGGAGGTGAGGGCTTCTCTGGAGAGCTGAGCTGAGAGCTTGGAG 711  
QY 830 ACCACATACATTATGACTTACGTCAGAACACTGATGTTCAAAGCTGCTCTCGT 889  
Db 712 AGAACTCCGCGCTTACCTCCAGGGAAGGAGCTGCTGCGCCAGAGCTGCCCTG 771  
QY 890 GGGAGGAGACCTGTGTGATGCCATCAAAGTGCGAGAGAAATCATGATATGCGAG 949  
Db 772 GCGAACAGGCGCTTGCGACCCAGCAAGTCCGGAGGCGCTGAGCTATGCGAC 831  
QY 950 AAATAAAGACCCAGGCTTACCCCC 975  
Db 832 AGGTGCCAGCAACGGCACCCTC 857

RESULT 4  
US-09-046-572-4  
; Sequence 4, Application US/09046572  
; Patent No. 659935  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guebler, Karl J.  
; APPLICANT: Baughn, Mariah  
; TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/046,572  
; FILING DATE: Filed Herewith  
; CLASSIFICATION:

APPLICATION NUMBER:  
FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REFERENCE/DOCKET NUMBER: PP-0323-1 CIP

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650-855-0555

TELEFAX: 650-845-4166

INFORMATION FOR SEQ ID NO.: 4

SEQUENCE CHARACTERISTICS:

LENGTH: 2328 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: ADRET0105

CLONE: 2493150

US-09-046-572-4

Query Match 11.5%; Score 241.6; DB 3; Length 2328;

Best Local Similarity 58.0%; Pred. No. 1.9e-44; Matches 427; Conservative 0; Mismatches 309; Indels 0; Gaps 0;

QY 240 GAAACGGCTTACGGAGACCTACCGGATGTTGAAAGTCATCTGGCTGG 299

Db 278 GAACTTCTGGTGAAGTGTTGGAGGGACCATCATGAGAGTCAACCTAGCTTCGG 337

QY 300 AAATTTAAACCTGGGAAATAATTAGAGAAAGCTGTAACACCTATGATCCCTGGCAGG 359

Db 338 GAACTTCATGCCATGGGGAGATTACGAGAGGACTGTGAGGTGAGATGAGC 397

QY 360 AAAAGCCTACTACATGGAGTGGCCAGATGGTGGAGCTGGCAGTGGCTGTC 419

Db 398 CAAGGGCTTACCTTGAGATGGGGAGGTGGGGAGCTGGCAGGGCTC 457

QY 420 AACCTGAACTGGGATGTCATAGAGATTCAAGTACCCACAGAAACTCAAGAGAG 479

Db 458 CAAGAACTGGAGACGTCTTCAGATGGCTGAGTCACAGGGAGATCCGAATCA 517

QY 480 TCTTGATGAAATTAAAAATTCCACAAAGAGATTCCATAGCTGGAGAGAGT 539

Db 518 GCTCTGAAGAAATGCTGAGACTCTTTCACACAGAGCTGCTTACCGAGCTGGAG 577

QY 540 AGAACTTGAGGTGAAATAATGAAAGCAGCTAAAGATACCAACAGAACAGAA 599

Db 578 GGACTGGCATCCAGTATCTGAGCTGCTCGCTGAGAAATACGAGCTGGAGAAG 637

QY 600 TAAATTAGACTCTTGGAGAACTCCAAAGCTGAGTGTGAGAAATCAGAGGAAGCA 659

Db 638 CAAGGGCGAGGCCCTGGACAGTCTGGCTGAGACTGCTGGAGAGAGCCA 697

QY 660 AGGAGCCGAAACCACTGAAATGAGAACAAAGAAATTGAGTGTGGAGACCGTAC 719

Db 698 GGAGCGCAAGAACTCTCAGAGTACTCGAGAAAGGCTGAGCTGACGCCATCG 757

QY 720 TCTCTGTCAGAGTGAATCCAGAAATTCTGAGATGCTGCAAGAGGCTCTGCTCA 779

Db 758 CAACAGCAGGGCGACTGGAGAAATTACCTGTCGACGCCCTACAGACGCCAGCA 817

QY 780 AGAGAGAGGCGCTCTGCTCTGGCTGAAACACATACA 839

Db 818 GGAGCGCAGGGCTCTGCTCTGGAGAAAGCTGGCTGCGCTGGCAAGACTCCCG 877

QY 840 TTATATCAGCTACGTCAGACTACTGAACTCCAGCTGCTCTGGCGAGGAGAC 899

Db 878 GGCTTACCACTCCAGGGAGAGCTGCTGCCAGAGCTGCGCTGGACAGCG 937

QY 900 CTGCTGTCAGCTCAAGTGCAGAGAAATCTGAAATGATGAGAAATAAGAC 959

Db 938 CTGCGCAGCCAGCAAGTCCCGAGCGCGCTGAGCTCATCGAGCTGGCGAG 997

QY 960 CCCAGCCTCACCCCC 975

Db 998 CAACGGCGCCACCTC 1013

RESULT 5

Sequence 316, Application US/09907794A

Patent No. 6633468

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Aszkenasy, Avi

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Oiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Godowski, Paul J.

APPLICANT: Gromaldi, Christopher J.

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: KJ Javvin, Ivar J.

APPLICANT: Mathez, Jennie P.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William T.

APPLICANT: Wood, William T.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

Acids Encoding the Same

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: 10466-14

CURRENT APPLICATION NUMBER: US/09/907,794A

CURRENT FILING DATE: 2001-07-17

PRIOR APPLICATION NUMBER: PCT/US00/04414

PRIOR FILING DATE: 2000-02-22

PRIOR APPLICATION NUMBER: US 60/143,048

PRIOR FILING DATE: 1999-07-07

PRIOR APPLICATION NUMBER: US 60/145,698

PRIOR FILING DATE: 1999-07-26

PRIOR APPLICATION NUMBER: US 60/146,222

PRIOR FILING DATE: 1999-07-28

PRIOR APPLICATION NUMBER: PCT/US99/20594

PRIOR FILING DATE: 1999-09-08

PRIOR APPLICATION NUMBER: PCT/US99/20944

PRIOR FILING DATE: 1999-09-13

PRIOR APPLICATION NUMBER: PCT/US99/21090

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/23039

PRIOR FILING DATE: 1999-10-05

PRIOR APPLICATION NUMBER: PCT/US99/28214

PRIOR FILING DATE: 1999-11-29

PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: 1999-11-30

PRIOR APPLICATION NUMBER: PCT/US99/28564

PRIOR FILING DATE: 1999-12-02

PRIOR APPLICATION NUMBER: PCT/US99/28565

PRIOR FILING DATE: 1999-12-02

PRIOR APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: 1999-12-16

PRIOR APPLICATION NUMBER: PCT/US99/30911

PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US99/30999

PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US00/00219

PRIOR FILING DATE: 2000-01-05

NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 376  
LENGTH: 997  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-09-907-794A-376

RESULT 6

Query Match 4.0%; Score 82.8; DB 3; Length 997;  
Best Local Similarity 81.4%; Pred. No. 7, 4e-09;  
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;  
PROR APPLICATION NUMBER: PCT/US99/28565  
PROR FILING DATE: 1999-12-02  
PROR APPLICATION NUMBER: PCT/US99/30095  
PROR FILING DATE: 1999-12-16  
PROR APPLICATION NUMBER: PCT/US99/2911  
PROR FILING DATE: 1999-12-20  
PROR APPLICATION NUMBER: PCT/US99/30999  
PROR FILING DATE: 1999-12-20  
PROR APPLICATION NUMBER: PCT/US00/00219  
PROR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 376  
LENGTH: 997  
TYPE: DNA  
ORGANISM: Homo Sapien

US-09-905-125A-376

Sequence 376, Application US/09905125A  
Patent No. 6664376  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashebenazi, Avi  
APPLICANT: Bobstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillian, Kenneth J.  
APPLICANT: KJavlin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Thomas, Daniel  
APPLICANT: Williams, P. Mickey  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/905,125A  
CURRENT FILING DATE: 2001-07-12

RESULT 7

Query Match 4.0%; Score 82.8; DB 3; Length 997;  
Best Local Similarity 81.4%; Pred. No. 7, 4e-09;  
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;  
PROR APPLICATION NUMBER: PCT/US99/28565  
PROR FILING DATE: 1999-12-02  
PROR APPLICATION NUMBER: PCT/US99/30095  
PROR FILING DATE: 1999-12-16  
PROR APPLICATION NUMBER: PCT/US99/2911  
PROR FILING DATE: 1999-12-20  
PROR APPLICATION NUMBER: PCT/US99/30999  
PROR FILING DATE: 1999-12-20  
PROR APPLICATION NUMBER: PCT/US00/00219  
PROR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 376  
LENGTH: 997  
TYPE: DNA  
ORGANISM: Homo Sapien

US-09-902-775A-376

Sequence 376, Application US/09902775A  
Patent No. 6686451  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashebenazi, Avi  
APPLICANT: Bobstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillian, Kenneth J.  
APPLICANT: KJavlin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Thomas, Daniel  
APPLICANT: Williams, P. Mickey  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/902,775A  
CURRENT FILING DATE: 2001-07-10  
PROR APPLICATION NUMBER: PCT/US99/23089  
PROR FILING DATE: 1999-10-05



	Matches	96	Conservative	0	Mismatches	22	Indels	0	Gaps	0
Qy	1979	ATATTTCTCTTATCTGTCAGAACAGTAACCTGGTTCACTTAA	AAA	2038						
Db	869	ATAGCTTTGTTATCTGATACATTAATAGTGTAA	AAA	926						
Qy	2039	AAAAA	AAA	2096						
Db	929	AAA	AAA	986						
RESULT 10										
US-09-904-920A-376										
Sequence 376 Application US/09904920A										
; Patent No. 6806352										
; GENERAL INFORMATION:										
; APPLICANT: Genentech, Inc.										
; APPLICANT: Ashkenazi, Avi										
; APPLICANT: Botstein, David										
; APPLICANT: Desnoyers, Luc										
; APPLICANT: Ferrara, Napoleone										
; APPLICANT: Filvaroff, Ellen										
; APPLICANT: Fong, Sherman										
; APPLICANT: Gao, Wei-Qiang										
; APPLICANT: Gerber, Hanspeter										
; APPLICANT: Gerritsen, Mary E.										
; APPLICANT: Hillman, Kenneth, J.										
; APPLICANT: KJavin, Ivar J.										
; APPLICANT: Mather, Jennie P.										
; APPLICANT: Pan, James										
; APPLICANT: Paoni, Nicholas F.										
; APPLICANT: Roy, Margaret Ann										
; APPLICANT: Stewart, Timothy A.										
; APPLICANT: Tumas, Daniel										
; APPLICANT: Williams, P. Mickey										
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic										
; FILE REFERENCE: GNE_16182C12										
; CURRENT APPLICATION NUMBER: US/09/903,603A										
; CURRENT FILING DATE: 2001-07-11										
; PRIOR APPLICATION NUMBER: PCT/US00/04414										
; PRIOR FILING DATE: 2000-02-22										
; PRIOR APPLICATION NUMBER: US 60/143,048										
; PRIOR FILING DATE: 1999-07-28										
; PRIOR APPLICATION NUMBER: PCT/US99/20594										
; PRIOR FILING DATE: 1999-09-08										
; PRIOR FILING DATE: 1999-07-26										
; PRIOR APPLICATION NUMBER: US 60/145,698										
; PRIOR FILING DATE: 1999-09-13										
; PRIOR APPLICATION NUMBER: PCT/US99/20944										
; PRIOR FILING DATE: 1999-09-15										
; PRIOR APPLICATION NUMBER: PCT/US99/21090										
; PRIOR FILING DATE: 1999-09-15										
; PRIOR APPLICATION NUMBER: PCT/US99/21547										
; PRIOR FILING DATE: 1999-07-07										
; PRIOR APPLICATION NUMBER: PCT/US99/23089										
; PRIOR FILING DATE: 1999-10-05										
; PRIOR APPLICATION NUMBER: PCT/US99/28214										
; PRIOR FILING DATE: 1999-11-29										
; PRIOR APPLICATION NUMBER: PCT/US99/28313										
; PRIOR FILING DATE: 1999-11-30										
; PRIOR APPLICATION NUMBER: PCT/US99/28564										
; PRIOR FILING DATE: 1999-12-02										
; PRIOR APPLICATION NUMBER: PCT/US99/28565										
; PRIOR FILING DATE: 1999-12-02										
; PRIOR APPLICATION NUMBER: PCT/US99/30095										
; PRIOR FILING DATE: 1999-12-16										
; PRIOR APPLICATION NUMBER: PCT/US99/30911										
; PRIOR FILING DATE: 1999-12-20										
; PRIOR APPLICATION NUMBER: PCT/US99/30999										
; PRIOR FILING DATE: 1999-12-20										
; PRIOR APPLICATION NUMBER: PCT/US00/00219										
; PRIOR FILING DATE: 2000-01-05										
; NUMBER OF SEQ ID NOS: 423										
; SEQ ID NO 376										
; LENGTH: 997										
; TYPE: DNA										
; ORGANISM: Homo Sapien										
; US-09-903-603A-376										
Query Match 4.0%; Score 82.8; DB 3; Length 997;										
Best Local Similarity 81.4%; Pred. No. 7.4e-09;										

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; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO: 376
; LENGTH: 997
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-904-920A-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7.4e-09; Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillian, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909, 064
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143, 048
PRIOR FILING DATE: 1999-07-17
PRIOR APPLICATION NUMBER: US 60/145, 698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146, 222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944

RESULT 11
; US-09-905-064-376
; Sequence 376 Application US/09909064
; Patent No. 6818449

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7.4e-09; Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillian, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909, 064
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143, 048
PRIOR FILING DATE: 1999-07-17
PRIOR APPLICATION NUMBER: US 60/145, 698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146, 222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944

RESULT 12
; US-09-905-381A-376
; Sequence 375 Application US/09905381A
; Patent No. 6818746

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7.4e-09; Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillian, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey

```



RESULT 14

US-09-906-646-376

Sequence 376, Application US/09906646

Patent No. 6852848

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Ashkenazi, Avi

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerlisen, Mary E.

APPLICANT: Goddard, A.

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.

APPLICANT: Hillian, Kenneth J.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Mather, Jennie P.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: 10466-14

CURRENT APPLICATION NUMBER: US/09/906,646

CURRENT FILING DATE: 2002-01-22

PRIORITY APPLICATION NUMBER: PCT/US00/04414

PRIORITY FILING DATE: 2000-02-22

PRIORITY APPLICATION NUMBER: PCT/US99/20594

PRIORITY FILING DATE: 1999-09-08

PRIORITY APPLICATION NUMBER: US 60/143,048

PRIORITY FILING DATE: 1999-07-07

PRIORITY APPLICATION NUMBER: US 60/145,698

PRIORITY FILING DATE: 1999-07-26

PRIORITY APPLICATION NUMBER: US 60/146,222

PRIORITY FILING DATE: 1999-07-28

PRIORITY APPLICATION NUMBER: PCT/US99/20944

PRIORITY FILING DATE: 1999-09-13

PRIORITY APPLICATION NUMBER: PCT/US99/23089

PRIORITY FILING DATE: 1999-09-10

PRIORITY APPLICATION NUMBER: PCT/US99/21090

PRIORITY FILING DATE: 1999-09-15

PRIORITY APPLICATION NUMBER: PCT/US99/21547

PRIORITY FILING DATE: 1999-09-15

PRIORITY APPLICATION NUMBER: PCT/US99/28564

PRIORITY FILING DATE: 1999-12-02

PRIORITY APPLICATION NUMBER: PCT/US99/28565

PRIORITY FILING DATE: 1999-12-02

PRIORITY APPLICATION NUMBER: PCT/US99/28313

PRIORITY FILING DATE: 1999-12-16

PRIORITY APPLICATION NUMBER: PCT/US99/30911

PRIORITY FILING DATE: 1999-12-20

PRIORITY APPLICATION NUMBER: PCT/US99/30999

PRIORITY FILING DATE: 1999-12-20

PRIORITY APPLICATION NUMBER: PCT/US00/00219

PRIORITY FILING DATE: 2000-01-05

NUMBER OF SEQ ID NOS: 423

SEQ ID NO 376

LENGTH: 997

TYPE: DNA

ORGANISM: Homo Sapien

US-09-906-646-376

Sequence 376, Application US/09904462

Patent No. 6878807

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Ashkenazi, Avi

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerlisen, Mary E.

APPLICANT: Goddard, A.

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.

APPLICANT: Hillian, Kenneth J.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Mather, Jennie P.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: 10466-14

CURRENT APPLICATION NUMBER: US/09/904,462

CURRENT FILING DATE: 2001-07-13

PRIORITY APPLICATION NUMBER: 09/665,350

PRIORITY FILING DATE: 2000-09-18

PRIORITY APPLICATION NUMBER: PCT/US00/04414

PRIORITY FILING DATE: 2000-02-22

PRIORITY APPLICATION NUMBER: US 60/143,048

PRIORITY FILING DATE: 1999-07-07

PRIORITY APPLICATION NUMBER: PCT/US99/20944

PRIORITY FILING DATE: 1999-09-13

PRIORITY APPLICATION NUMBER: PCT/US99/21090

PRIORITY FILING DATE: 1999-07-26

PRIORITY APPLICATION NUMBER: US 60/146,222

PRIORITY FILING DATE: 1999-07-28

PRIORITY APPLICATION NUMBER: PCT/US99/20594

PRIORITY FILING DATE: 1999-09-08

PRIORITY APPLICATION NUMBER: PCT/US99/21547

PRIORITY FILING DATE: 1999-09-15

PRIORITY APPLICATION NUMBER: PCT/US99/23089

PRIORITY FILING DATE: 1999-12-02

PRIORITY APPLICATION NUMBER: PCT/US99/30999

PRIORITY FILING DATE: 1999-12-20

PRIORITY APPLICATION NUMBER: PCT/US99/30999

PRIORITY FILING DATE: 1999-10-05

PRIORITY APPLICATION NUMBER: PCT/US99/23089

PRIORITY FILING DATE: 1999-10-05





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GenCore version 5.1.7

OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:40:03 ; Search time 1705 Seconds (without alignments)

10165.757 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096

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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing First 45 summaries

Database : Published Applications NA Main:\*

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10: /cgn2\_6/ptodata/1/pubpna/US11\_PUBCOMB.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2052	96.6	2527	9	US-10-756-149-4599	
3	1514.6	72.3	2471	7	US-10-112-944-39	
4	1448.4	69.1	1510	7	US-10-112-944-523	
5	1216.4	58.0	2120	7	US-10-172-18-1805	
6	1216.4	58.0	2120	7	US-10-342-887-1805	
7	1071	51.1	1729	9	US-10-450-763-9761	
8	1021.2	48.7	1993	9	US-10-450-763-9762	
9	594	28.3	625	5	US-10-066-543-481	
10	576.4	27.5	1242	3	US-09-925-301-269	
11	576.2	27.5	641	5	US-10-066-543-990	
12	556	26.5	559	3	US-09-878-134-252	
13	520.8	24.8	539	5	US-10-066-543-321	
14	488	23.3	511	3	US-09-960-253-83	
15	470.4	22.4	512	3	US-09-960-253-90	
16	329	15.7	449	9	US-10-450-763-9759	
17	274.8	13.1	439	9	US-10-450-763-9760	
18	259.6	12.4	2080	6	US-10-450-763-9761	
19	255.4	12.2	295	3	US-09-867-701-2669	
20	220.8	11.5	2328	4	US-10-433-324-24	
C	21	240.2	11.5	45698	3	US-19-984-429-344
C	22	227.4	10.8	1415	9	US-10-970-760-1
C	23	216.4	10.3	16181	3	US-09-764-891-6956

ALIGMENTS

RESULT 1  
US-10-801-292-1

Sequence 1, Application US/10001292  
; Publication No. US200502024481  
; GENERAL INFORMATION:  
; APPLICANT: LEB, YI-CHAO  
; APPLICANT: YUEN, PUI-YEE  
; APPLICANT: HUANG, YI-HUEI  
; APPLICANT: WU, HUI-CHUAN  
; TITLE OR INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND TREATMENT OF CANCER  
; TITLE OF INVENTION: THERAPY OF CANCER  
; FILE REFERENCE: 5422-2  
; CURRENT APPLICATION NUMBER: US/10/801-292  
; CURRENT FILING DATE: 2004-03-15  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 1  
; LENGTH: 2096  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-801-292-1

Query Match 100.0%; Score 2096; DB 9; Length 2096;  
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels. 0; Gaps 0;

Matches 2096; Conservative 0; Description

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QY 61 CGGAGAGCCGCGGGACTCTGGGGCGACGCTGGGGCGGCCGGGACCCCTCCAGGC 120  
Db 61 CGGAGAGCCGCGGGACTCTGGGGCGACGCTGGGGCGGCCGGGACCCCTCCAGGC 120

QY 121 CCCTTAGTGGCGCCGCCCTCCGGTGGCCCGAGTCGGGGCGGCCGGCC 180  
Db 121 CCCTTAGTGGCGCCGCCCTCCGGTGGCCCGAGTCGGGGCGGCCGGCC 180

QY 181 CGCTCTCGCGCGTGGCCCGGCCGGCGGCC 240  
Db 181 CGCTCTCGCGCGTGGCCCGGCCGGCGGCC 240

QY 241 AACCGGTTTACCGGAGCTTACCGGATGTTATGGACAGTCGTTCAATCTGGCTCGGA 300  
Db 241 AACCGGTTTACCGGAGCTTACCGGATGTTATGGACAGTCGTTCAATCTGGCTCGGA 300

QY 301 AATTAACTGGGAAATTATGAGAAGCTGTAACCTATGATCTTGGAGGA 360  
 Db 301 AATTAACTGGGAAATTATGAGAAGCTGTAACCTATGATCTTGGAGGA 360  
 QY 361 AAGCTTACCTACATGGGAAATTATGAGAAGCTGTAACCTATGATCTTGGAGGA 420  
 Db 361 AAGCTTACCTACATGGGAAATTATGAGAAGCTGTAACCTATGATCTTGGAGGA 420  
 QY 421 ACTGAACTGGACATGTCCTCATAGAGATTCACTGAGTACCCAGAACTCAAGAGT 480  
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 QY 541 GAACCTGAGCTGAAATTATGAGAAGCTTAAAGATACCAACGAACTTCAAGGAGT 600  
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 Db 661 GGAGCCGAACGCACTAAATGACCAAAAGAATTGAGTATGGAGACCGTACT 720  
 QY 721 TCTGTCAGATGAAATCAGAAATTATGAGAAGCTTCAAGGAGTCTGTCAGGTTA 780  
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 QY 901 TGTGTTGATGCCATCAAGTGGCAGAGAAATCATGAAATTATGAGAAGAAATAAGACC 960  
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 QY 961 CCAGCTCTAACCGGCTCTGAACTCTGAGCTTCAACCTGTGAGAGAGCAT 1020  
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 QY 1021 GTGGTTAGAAAGATTACGACACCTTCTAAATGCTCAGAAAGATGCCCGCTCT 1080  
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 QY 1081 TCGGCAGAGCATATACCGCTCTGAGTATGTTAAATACCCAGCCACCGCTGCC 1140  
 Db 1081 TCGGCAGAGCATATACCGCTCTGAGTATGTTAAATACCCAGCCACCGCTGCC 1140  
 QY 1141 CCGGATTCAGAAGGTAATAATTCACAGGTACTTCGAGATCCAGTTACAGGA 1200  
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 QY 1201 TCAAGTTGGTCAACGGGACTTCAAGAGCTTACAGCTTCACTGGAGAGTCAGG 1260  
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 QY 1261 CGGACAGCTGGGACTTCAAGAGCTTACAGCTTCACTGGAGAGTCAGG 1320  
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 QY 1381 AGGGTTGGTCCGTCGTACCGAAGTTGCTGGAAAGAAATGAGACAGACAG 1440

Db 1381 AGGGTTGGTCCGTCGTACCGAAGTTGCTGGAAAGAAATGAGACAGACAG 1440  
 QY 1441 ACCGTGCCACGCCAACCCACACCAAGCTGAGAGCTCAGCACCGTGAACITGCTGAG 1500  
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 QY 1501 AATAGCAGTGTCACTCCCGTCACTGGTCTCCCGTGTCA 1560  
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 Db 1861 AACTCTAATGTCGCTCTGTTAACGAAATCATGCTCTGTTCACTTTAGGGAGCT 1920  
 QY 1921 AAGTTCTGCTTAACTAATGAGAAGTCTTAATGACCTGTCAGGCTTAAAT 1980  
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 QY 1981 AATTCTCTTATTCGTTCAAGAACAGTAACTTGTGTTCAATCTTAAAT 2040  
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RESULT 2  
 US-10-56-149-4599  
 ; Sequence 4599, Application US/10756149  
 ; Publication No. US200501813791  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Aziz, Natasha  
 ; ; ALBERT  
 ; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND METHODS OF TREATMENT THEREFOR  
 ; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND METHODS OF TREATMENT THEREFOR  
 ; FILE REFERENCE: file  
 ; CURRENT APPLICATION NUMBER: US/10/756,149  
 ; CURRENT FILING DATE: 2004-01-12  
 ; NUMBER OF SEQ ID NOS: 5818  
 ; SOFTWARE: Patent version 3.2  
 ; SEQ ID NO 4599  
 ; LENGTH: 2527  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapiens  
 ; FEATURE: misc feature  
 ; LOCATION: (2508)..(2508)  
 ; OTHER INFORMATION: n is a, c, g, or t  
 ; US-10-756-149-4599

Query Match 96.6%; Score 2025.2; DB 9; Length 2527;



APPLICANT: Yang, Yonghong  
 APPLICANT: Weng, Gezhi  
 APPLICANT: Zhang, Jie  
 APPLICANT: Ren, Feiyan  
 APPLICANT: Xue, Aidong J.  
 APPLICANT: Wang, Jian-Rui  
 APPLICANT: Wehrman, Tom  
 APPLICANT: Ghosh, Malabika  
 APPLICANT: Wang, Dunrui  
 APPLICANT: Zhao, Qing A.  
 APPLICANT: Wang, Zhiwei  
 TITLE OF INVENTION: No. US2004048249A1el Nucleic Acids and  
 TITLE OF INVENTION: Secreted Polypeptides  
 FILE REFERENCE: 805A  
 CURRENT APPLICATION NUMBER: US/10/112, 944  
 CURRENT FILING DATE: 2002-03-28  
 PRIOR APPLICATION NUMBER: US 09/488, 725  
 PRIOR FILING DATE: 2000-01-21  
 PRIOR APPLICATION NUMBER: US 09/491, 404  
 PRIOR FILING DATE: 2000-01-25  
 PRIOR APPLICATION NUMBER: US 09/496, 914  
 PRIOR FILING DATE: 2000-02-03  
 PRIOR APPLICATION NUMBER: US 09/515, 126  
 PRIOR FILING DATE: 2000-02-28  
 PRIOR APPLICATION NUMBER: US 09/519, 705  
 PRIOR FILING DATE: 2000-03-07  
 PRIOR APPLICATION NUMBER: US 09/540, 217  
 PRIOR FILING DATE: 2000-03-31  
 PRIOR APPLICATION NUMBER: US 09/552, 929  
 PRIOR FILING DATE: 2000-04-18  
 PRIOR APPLICATION NUMBER: US 09/577, 408  
 PRIOR FILING DATE: 2000-05-18  
 NUMBER OF SEQ ID NOS: 924  
 SOFTWARE: pFL\_Genes Version 5.0  
 SEQ ID NO: 39  
 LENGTH: 2471  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: (61)..(1251)  
 US-10-112-944-39  
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 Best Local Similarity 99.7%; Pred. No. 1.9e-106; Mismatches 4; Indels 1; Gaps 1;  
 Matches 1528; Conservative 0; Mismatches 4; Indels 1; Gaps 1;  
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 Qy 919 GTGCCAGAGAAATCTGAATATGATCGAAGAATTAAGACCCCGACCTCTACCCCGTG 978  
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 Qy 1159 ATAATTCACAGGACTTCGGAAAGATCCCACTTAAAGCCATCTTCGGTGAACG 1218  
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 Db 721 GCACTGACATGATGAGAAGATGAGACCATCTCCGGACAACTCGGGCTCC 780  
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 Qy 1339 AAGGATGCTGCTCTATGGAGACAGACGAGCTGTCAGGGAGGGTTGTCGGTCAACG 1398  
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 Qy 1399 TCGTACCGAGTGTGGAGAAATGAGACAGAGAGCTGACCGTGTGCCCCACGG 1458  
 Db 901 TCGTACCGAGTGTGGAGAAATGAGACAGACGAGCTGACCGTGTGCCCCACGG 960  
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 Qy 1519 CCCACACAGTGGAGAGCATCGACCGTGAATCTGAGAATAGCAGTGACCGTGTGCCCCACGG 1578  
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 Qy 1579 TCGCCGAGGACCATCACCTTAAGGCCAGCTTCAAGCCCGAGACGGCGCTCT 1638  
 Db 1081 TCGTCTGGAGACATCCACCTTAAGGCCAGCTTCAAGCCCGAGACGGCGCTCT 1140  
 Qy 1639 AACATGCCAACGGGACTGCGAAGCCCTTTCTCGGGAGAAACCCCTTGCACCT 1698  
 Db 1141 AACGATGCCAACGGGACTGCGAAGCCCTTTCTCGGGAGAAACCCCTTGCACCT 1200  
 Qy 1699 CTGAAACTCCCGGACTGCGAAGATGATGCTGGAGACCCATCATCGATGAGGAG 1758  
 Db 1201 CTGAAACTCCCGGACTGCGAAGATGATGCTGGAGACCCATCATCGATGAGGAG 1260  
 Qy 1759 ACCCAAGACTCCCGGCTCTCGGTCTCCCTGGAGATGATGGGGCACTCTGT 1818  
 Db 1261 AGCCAAAGACTCTCCGGGCTCTCGGTCTCCCTGGAGATGATGGGGCACTCTGT 1320  
 Qy 1819 CTGCCAGGTGCTGACGGCTGGAGAGCTCACTGAGGGCTACTCTAATGCGCTGC 1878  
 Db 1321 CTGCCAGGTGCTGACGGCTGGAGAGCTCACTTGTGCGCTGC 1380  
 Qy 1879 TTAAGCAATCATGCTCTCTGTTGAGCTGTTGAGGAGCTTCACTTGTGCGCTGC 1937  
 Db 1381 TTAAGCAATCATGCTCTCTGTTGAGGAGCTTCACTTGTGCGCTGC 1440  
 Qy 1938 ATTAATGAGTAAATGCTTAAGGACGAGCTGAGGAGCTTCACTTGTGCGCTGC 1997  
 Db 1441 ATTAATGAGTAAATGCTTAAGGACGAGCTGAGGAGCTTCACTTGTGCGCTGC 1500

QY 1998 TTCAGAAGAACGTAACCTGGTTCAATCTTA 2030  
 Db 1501 TTCAAGAAGAACGTAACCTGGTTCAATCTTA 1533

RESULT 4

US-10-112-944-523  
 Sequence 523; Application US/10112944  
 Publication No. US20040048249A1  
 GENERAL INFORMATION:

APPLICANT: Yang, Y. Tom  
 APPLICANT: Yang, Yonghong  
 APPLICANT: Zhang, Jie  
 APPLICANT: Ren, Feiyan  
 APPLICANT: Xue, Aidong J.  
 APPLICANT: Wang, Jian-Rui  
 APPLICANT: Wehrman, Tom  
 APPLICANT: Ghosh, Malabika  
 APPLICANT: Wang, Dunrui  
 APPLICANT: Zhao, Qing A.  
 APPLICANT: Wang, Zhiwei

TITLE OF INVENTION: NO. US20040048249A1 Nucleic Acids and  
 FILE REFERENCE: 805A

CURRENT APPLICATION NUMBER: US/10-112,944  
 CURRENT FILING DATE: 2002-03-28  
 PRIOR APPLICATION NUMBER: US 09/488,725

PRIOR FILING DATE: 2000-01-21  
 PRIOR APPLICATION NUMBER: US 09/491,404

PRIOR FILING DATE: 2000-01-25  
 PRIOR APPLICATION NUMBER: US 09/496,914

PRIOR FILING DATE: 2000-02-03  
 PRIOR APPLICATION NUMBER: US 09/515,126

PRIOR FILING DATE: 2000-02-28  
 PRIOR APPLICATION NUMBER: US 09/519,705

PRIOR FILING DATE: 2000-03-07  
 PRIOR APPLICATION NUMBER: US 09/540,217

PRIOR FILING DATE: 2000-03-31  
 PRIOR APPLICATION NUMBER: US 09/552,929

PRIOR FILING DATE: 2000-04-18  
 PRIOR APPLICATION NUMBER: US 09/577,408

PRIOR FILING DATE: 2000-05-18  
 NUMBER OF SEQ ID NOS: 924

SOFTWARE: pt\_FL\_genes Version 5.0  
 SEQ ID NO 523  
 LENGTH: 1510  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-10-112-944-523

Query Match 69.1%; Score 1448.4; DB 7; Length 1510;  
 Best Local Similarity 99.2%; Bred. No. 1.1e-292; Matches 1498; Conservative 0; Mismatches 6; Indels 6; Gaps 4;

QY 217 ATGTCGCCGGGGCCCCAGGGAGTGTGACCCGGGTACCGGAGACCTACCGAATGTTAG 276  
 Db 1 ATGTCGCCGGGGCCCCAGGGAGTGTGACCCGGGTACCGGAGACCTACCGAATGTTAG 60

QY 277 GAAACGTTCAATCCCTGGCTGGGAATAACCTGGGGAAAATTATGAGAAGCT 336  
 Db 61 GAAACGTTCAATCCCTGGCTGGGAATAACCTGGGGAAAATTATGAGAAGCT 120

QY 337 GTAAACGGTATGATCTGGAGGAAGCTTACCTAGATGGAGTGGCCAAAGTCGGTGG 396  
 Db 121 GTAAACGGTATGATCTGGAGGAAGCTTACCTAGATGGAGTGGCCAAAGTCGGTGG 180

QY 397 ATGGCCACTGGTCCCCGGTCAAC-TGAACTGGGACATGTCTCTCATAGAGATTCAAG 455  
 Db 181 ATGGCCACTGGTCCCCGGTCAAC-TGAACTGGGACATGTCTCTCATAGAGATTCAAG 240

QY 456 TACCCACAAGAAC-TCAACGGAGTCTT--GATGAAATTAAATTCCACAAG 511

Db 241 TACCCACAAGAACCTAACGGAGACTTGTGAAATTAAATTCCACAAG 300  
 QY 512 AGATTATTCATGAGCTGGAGAGAACATAGACTT-GACGTTGAATATGAAACGCAACT 570  
 Db 301 AGATTATTCATGCTGGAGAGAACATAGACTT-GACGTTGAATATGAAACGCAACT 360

QY 571 CTAAAGAGATCCAAACAGAACAGAATAATTAGACCTTGAGAAATTCGGAGCT 630  
 Db 361 CTAAAGAGATACCAACAGAACACAAAGAAATAATTAGACTTGTGAAATTCGGAGCT 420

QY 631 GAGTGGAGAAGATCAGAGGAACAGAACAGAATAATTAGACCTTGAGAAATTCGGAGCT 690  
 Db 421 GAGTGGAGAAGATCAGAGGAACAGAACACAAAGAAATAATTAGACTTGTGAAATTCGGAGCT 480

QY 691 AAAGAAATTGAGTATGGAGACCTGTTACTCTCGTAGACTGAATTCAGAAATTCATT 750  
 Db 481 AAAGAAATTGAGTATGGAGACCTGTTACTCTCGTAGACTGAATTCAGAAATTCATT 540

QY 751 GCAGATGCTGCCTGGAGAAGCCAGGAAGGAAAGCCAGGAAGGAAAGCACTAAATGAAAC 810  
 Db 541 GCAGATGCTGCCTGGAGAAGGCTCTGCTGAAGAGAAGAGGCGCTTCCTGTTGTTGAT 600

QY 811 AACGACTGTGCTTCACACATACATTATTCACCTACAGTCTGAGACTACTG 870  
 Db 601 AAGCACTGTGCTTCACACATACATTATTCACCTACAGTCTGAGACTACTG 660

QY 871 ATTCGAAGCTGCCTGGTGCAGAGACCTGTTGAAGAGAAGGGCTCTGCTTCTGTTGAT 930

Db 661 AATTCAAGCTGCCCTGGTGCAGAGACCTGTTGAAGAGAAGGGCTCTGCTTCTGTTGAT 720

QY 931 ATCATGATATGATGAGAATAAAGACCCCTCTTACCCCGTGTGAACTCT 990  
 Db 781 CAGGCCTTACCCATGATGAGAAGACCTGTTGAAGAGAAGGAACTTACGACACCTTCT 840

QY 721 ATCATGATATGATGAGAATAAAGACCCCTCTTACCCCGTGTGAACTCT 780

Db 991 CAGGCCTTACCCATGATGAGAAGACCTGTTGAAGAGAAGGGCTCTGCTTCTGCTTCT 1050

Db 781 ATCATGATATGATGAGAATAAAGACCCCTCTTACCCCGTGTGAACTCT 840

QY 1051 AAATGCTTACCAAGATGCCCTCCCTCTTACCCCGTGTGAACTCT 1110

Db 841 AATGCTTACCAAGATGCCCTCCCTCTTACCCCGTGTGAACTCT 900

QY 1111 GATATGTTATAACCCGGCCACGCGCTGCCCTGCCTGAAAGGATAACAGTCCCTGATC 1170

QY 901 GATATGTTATAACCCGGCCACGCGCTGCCCTGCCTGAAAGGATAACAGTCCCTGATC 960

Db 1171 GGTACTTCCGAGATCCCACTTACAGCACTAGTTCTGGTGTGACCGACTGACATG 1230

Db 961 GGTACTTCCGAGATCCCACTTACAGCACTAGTTCTGGTGTGACCGACTGACATG 1020

QY 1231 ATGAGAGGAGAAGTGGAGGACCTCTCCGGACACTCTGGGGCTCCAAAGACCTTA 1290

Db 1021 ATGAGAGGAGAAGTGGAGGACCTCTCCGGACACTCTGGGGCTCCAAAGACCTTA 1080

QY 1291 CTCACTTGTGACAGGGAGATGTCATCAGCTGCTCATCCCGAGGAAGGGATGCTG 1350

Db 1081 CTCACTTGTGACAGGGAGATGTCATCAGCTGCTCATCCCGAGGAAGGGATGCTG 1140

QY 1351 CTCTATGAGAACACGAGCTGTCAGGGAGGGTTGTTCCCTGGCTGTGACAGGAG 1410

Db 1141 CTCTATGAGAACACGAGCTGTCAGGGAGGGTTGTTCCCTGGCTGTGACAGGAG 1200

QY 1411 TTGTGGAGAACATGAGAACACGAGCTGTCAGGGAGGGTTGTTCCCTGGCTGTGACAGGAG 1470

Db 1201 TTGTGGAGAACATGAGAACACGAGCTGTCAGGGAGGGTTGTTCCCTGGCTGTGACAGGAG 1260

QY 1471 AGAACATGAGAACACGAGCTGTCAGGGAGGGTTGTTCCCTGGCTGTGACAGGAG 1530

Db 1261 AGAACATGAGAACACGAGCTGTCAGGGAGGGTTGTTCCCTGGCTGTGACAGGAG 1320

QY 1531 TACTGGAGCTGTCAGGGAGGGTTGTTCCCTGGCTGTGACAGGAG 1590

Db 1321 TACTGGAAATGCTTATCCATGGGGCAGCTGCCCACAGGAGGAGATTCGCCAGGAG 1380  
 QY 1591 ACATCCACCTTAAGGCCCAAGCTCCAGGCCAGCAGCCGAGCTTACGATGCCAAC 650  
 Db 1381 ACATCCACCTTAAGGCCCAAGCTCCAGGCCAGCAGCCGAGCTTACGATGCCAAC 1440  
 QY 1651 GGGACTGCAAGGCCCTTTCAGGGAGAAACCTTCTGACTCTGAACTCCSC 1710  
 Db 1441 GGGACTGCAAGGCCCTTTCAGGGAGAAACCCCTTGCACCTGAACTCCSC 1500  
 QY 1711 CCGACTGTGA 1720  
 Db 1501 CGGACTGTGA 1510

RESULT 5  
 US-10-172-118-1805  
 ; Sequence 1805, Application US/10172118  
 ; Publication No. US20030224374A1

GENERAL INFORMATION:  
 ; APPLICANT: Dai, Hongyue  
 ; APPLICANT: He, Yudong  
 ; APPLICANT: Linsley, Peter  
 ; APPLICANT: Mao, Mao  
 ; APPLICANT: Roberts, Chris  
 ; APPLICANT: Van 't Veer, Laura  
 ; APPLICANT: Van de Vijver, Marc  
 ; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients  
 ; FILE REFERENCE: 9301-175-999  
 ; CURRENT APPLICATION NUMBER: US/10/172,118  
 ; CURRENT FILING DATE: 2002-06-14  
 ; PRIOR APPLICATION NUMBER: 60/380,770  
 ; PRIOR FILING DATE: 2002-05-14  
 ; NUMBER OF SEQ ID NOS: 2699  
 ; SEQ ID NO 1805  
 ; LENGTH: 2120  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; PUBLICATION INFORMATION:  
 ; DATABASE ENTRY DATE: 2001-06-18

US-10-172-118-1805

Query Match 58.0%; Score 1216.4; DB 6; Length 2120;  
 Best Local Similarity 98.3%; Pred. No. 4.4e-244;  
 Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 232 GGGAGGTTGAACTCCCTGTATTAGATGCCAGATGTTGACGTCATCT 291  
 Db 292 GGGGGGGTGAACACTCCCTGTATTAGATGCCAGATGTTGACGTCATCT 351  
 QY 292 GGACTGCAATTATAAACCTGGAAATAATGAGAAGCTGCTAACCTATGTC 351  
 Db 352 GGCTGGAATTAAACCTGGGGAAATAATTGAGAAGCTGCTAACCTATGTC 411  
 QY 352 CTCGGAGGAAGCTACTACAGTGGACTGCGCAAGATGTTGAGATGGTCC 411  
 Db 412 CTGGCAGGAAAGCTACTACAGTGGACTGCGCAAGATGTTGAGATGGTCC 471  
 QY 412 CCCGGTGTCAACTGACTGGACATGCTCTATAGAGATTCTAAGTACCAAGAACCT 471  
 Db 472 CCCGGTGTCAACTGACTGGACATGCTCTATAGAGATTCTAAGTACCAAGAACCT 531  
 QY 472 AACGAGACTCTGATGAAATTAAACATCCAAAGAGATTATCTGAGCTGGAG 531  
 Db 532 AACGAGACTCTGATGAAATTAAACATCCAAAGAGATTATCTGAGCTGGAG 591  
 QY 532 AACGAGACTCTGATGAAATTAAACATCCAAAGAGATTATCTGAGCTGGAG 591  
 Db 592 AACGAGATGAGCTGACTGAACTATGAACTGAACTCTAAAGATAACCCAGA 651  
 QY 592 CACAGAATAATTAGTGTCTGGAGAAATCCAAAGCTGAGATGAGATCGAAGG 651

RESULT 6  
 US-10-342-887-1805  
 ; Sequence 1805, Application US/10342887  
 ; Publication No. US20040058340A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dai, Hongyue  
 ; APPLICANT: He, Yudong  
 ; APPLICANT: Linsley, Peter S.  
 ; APPLICANT: Mao, Mao  
 ; APPLICANT: Roberts, Christopher J.  
 ; APPLICANT: Van 't Veer, Laura Johanna  
 ; APPLICANT: Van de Vijver, Marc J.  
 ; APPLICANT: Bernarda, Rene

Db 652 CACAGAATAATTAGTGTCTGGAGAAATCCAAAGCTGAGATCGAAGGAGTCAGGG 711  
 QY 652 AAAGGCCAGGAGGCCAGCAGCAAGCTCAATATGACAACAAAGAATTGAGATGGAG 711  
 Db 712 AAAGGCCAGGAGGCCAGCAGCAAGCTCAATATGACAACAAAGAATTGAGATGGAG 771  
 QY 712 ACCCTACTCTCTGCTACAGTGAATCCAGAAATTCTATGAGATGGATGGCTGCAAGAGGCT 771  
 Db 772 ACCGTTACTCTCTGCTACAGTGAATCCAGAAATTCTATGAGATGGATGGCTGCAAGAGGCT 831  
 QY 772 CTGCTGAGAGAGGGCTCTGCTTCGTTGATTAACACTGGGCTTTCGAAAC 831  
 Db 832 CTGCTGAGAGAGGGCTCTGCTTCGTTGATTAACACTGGGCTTTCGAAAC 891  
 QY 832 CACATACATTATCCTACACTCTGAGAACTACTGAACTTCACAGCTGCCGCG 891  
 Db 892 CACATACATTATCCTACACTCTGAGAACTACTGAACTTCACAGCTGCCGCG 951  
 QY 892 CAGGAGACTGTGTTGATGCCATCAAGCTGAGAAATCATGAAATATGATGCCAGAA 951  
 Db 952 CAGGAGACTGTGTTGATGCCATCAAGCTGAGAAATCATGAAATATGATGCCAGAA 1011  
 QY 952 ATAAGGCCAGCTTACCCCGTGTGTGAACTCTCAGSCTTCACCATGATCCAG 1011  
 Db 1012 ATAAGGCCAGCTTACCCCGTGTGTGAACTCTCAGSCTTCACCATGATCCAG 1071  
 QY 1012 AGAACATGTTGAGAATACGACACCTTCTAATCTCCACAGATGCC 1071  
 Db 1072 AGAACATGTTGAGAATACGACACCTTCTAATCTCCACAGATGCC 1131  
 QY 1072 CCCGCTCTTCAGGAGGATATACCGTCTCCCTGATCGATATGTTATAACCGCC 1131  
 Db 1132 CCCGCTCTTCAGGAGGATATACCGTCTCCCTGATCGATATGTTATAACCGCC 1191  
 QY 1132 ACGGCTCCCGAAATTCAACAGAATTAATTAATTCACAGTACTCTCCAGAGATCCCGAT 1191  
 Db 1192 ACGGCTCCCGAAATTCAACAGAATTAATTCACAGTACTCTCCAGAGATCCCGAT 1251  
 QY 1192 TTACAGGATCAGTTGGTCAAGGGACTGACATGATGAAAGAGAGAATGGAG 1251  
 Db 1252 TTACAGGATCAGTTGGTCAAGGGACTGACATGATGAAAGAGAGAATGGAG 1311  
 QY 1252 ACCATCTCCCGACACTGGGGCTCAACAGACACTTACGTTGACAGGAGAT 1311  
 Db 1312 ACCATCTCCCGACACTGGGGCTCAACAGACACTTACGTTGACAGGAGAT 1371  
 QY 1312 GTCATCTGGCTCTCATCCCGAGGAGAGATGGTGGCTCTATGGAGACAGCTG 1371  
 Db 1372 GTCATCTGGCTCTCATCCCGAGGAGAGATGGTGGCTCTATGGAGACAGCTG 1431  
 QY 1372 TCCAAAGGGGGTTGTTCCGGTGTGCAACAGAAGTGTGCTGAGAATGGAGACA 1431  
 Db 1432 TCCAAAGGGGGTTGTTCCGGTGTGCAACAGAAGTGTGCTGAGAATGGAGACA 1491  
 QY 1432 GAGACAGCTGGCCACCGCCAGACCGCCACACGGAGAGCTGAGCTGAG 1481  
 Db 1492 GAGGACTGACCTGCCACGCCACACCGAGCTGAGCTGAG 1541

TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients  
FILE REFERENCE: 9301-188-999  
CURRENT APPLICATION NUMBER: US/10/342,887  
CURRENT FILING DATE: 2003-01-15  
PRIOR APPLICATION NUMBER: 60/288,918  
PRIOR FILING DATE: 2001-06-18  
PRIOR APPLICATION NUMBER: 60/380,710  
PRIOR FILING DATE: 2002-05-14  
NUMBER OF SEQ ID NOS: 2699  
SEQ ID NO 1805  
LENGTH: 2120  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-342-887-1805

Query Match 58.0%; Score 1216.4; DB 7; Length 2120;  
Best Local Similarity 98.3%; Pred. No. 4.e-24; Indels 21; Gaps 0;  
Matches 1229; Conservative 0; Mismatches 0;

QY 232 GAGGGGGTGAACCGGCTCACGGAGACCTACCGGAAGTATGACAGTCATCT 291  
Db 292 GTGGGGGGTGAACCTCCCTGTAATTAGGATGCCAGAATGTATGAACTTCATCT 291  
QY 292 GGGCTGCGAAMTTATAAACCTGGGAAATAATTAGAGAAAGCTGTAACGCTATGTC 351  
Db 352 GGGCTGCGAAMTTATAAACCTGGGAAATAATTAGAGAAAGCTGTAACGCTATGTC 411  
QY 352 CTGGCAGGAAAGCCTACTAGAGCTGAGTGGCCAGATGGTGGAGATGCCACTGGTC 411  
Db 412 CTGGCAGGAAAGCCTACTAGAGCTGAGTGGCCAGATGGTGGAGATGCCACTGGTC 471  
QY 412 CCGCTGTCAACTGAACTGGCATAGATTCTACCTACCCACAGAACCT 471  
Db 472 CCTCTGTCAACTGAACTGGCATAGATTCTACCTACCCACAGAACCT 531  
QY 532 AAGGAGACTCTGAAGAATTTCACAGAGATTCCACAGAGATTCAGCTGGG 531  
Db 532 AAGGAGACTCTGAAGAATTTCACAGAGATTCAGCTGGG 531  
QY 592 CACAGAGATAATTAGAGCTTGGAGAATCCAACTCTAAAGATAACACAGA 592  
Db 652 CACAGAGATAATTAGAGCTTGGAGAATCCAACTCTAAAGATAACACAGA 591  
QY 652 AAAGGCCAGGAGCCGAAACGCTCAATAGACAAAGAATTGGAGATGAGTC 651  
Db 712 AAAGGCCAGGAGCCGAAACGCTCAATAGACAAAGAATTGGAGATGAGTC 711  
QY 712 ACGGTACTCTCTGAGGTGAATCCAGAAATCATGGAGTTGGATGTTGGAG 771  
Db 772 ACGGTACTCTCTGAGGTGAATCCAGAAATCATGGAGTTGGATGTTGGAG 831  
QY 772 CTCTCTGAGGAGAGGGCTCTGCTGTTGAATGAACTCTGGCTGCAAC 831  
Db 832 CTCTCTGAGGAGAGGGCTCTGCTGTTGAATGAACTCTGGCTGCAAC 891  
QY 832 CTCTCTGAGGAGAGGGCTCTGCTGTTGAATGAACTCTGGCTGCAAC 891  
Db 892 CGGGAGACTCTGCTGTTGAATGAACTCTGGCTGCAAC 951  
QY 952 CGGGAGACTCTGCTGTTGAATGAACTCTGGCTGCAAC 951  
QY 952 ATAAAGCCCAACCTCTACCCCGTGTCTGAACTCTGCTGCAAC 1011  
Db 1012 ATAAAGCCCAACCTCTACCCCGTGTCTGAACTCTGCTGCAAC 1071

Query Match 1012 AGAACATGTTAGAGAATGACACCCCTTCTAAATGCTACCAAGATGCC 1071  
Db 1072 AGAACATGTTAGAGAATGACACCCCTTCTAAATGCTACCAAGATGCC 1131  
QY 1072 CCCGCTCTTCAGGAGACCTACCGGAATGCTGATGTTTAAACCGCC 1131  
Db 1132 CCCCTCTTCAGGAGACCTACCGGAATGCTGATGTTTAAACCGCC 1191  
QY 1132 ACGGTGCCCGAATTCCACAGGTAATACTCCAGTCCAGT 1191  
Db 1192 ACGGTGCCCGAATTCCACAGGTAATACTCCAGTCCAGT 1251  
QY 1192 TTACAGGATCAGTTCTGGCTGAGCTGCTGAGTGGAGAGTGTAG 1251  
Db 1252 TTACAGGATCAGTTCTGGCTGAGCTGCTGAGTGGAGAGTGTAG 1311  
QY 1252 ACCATCTCCGCAACTCCGGCTCCACAGAACCT 1311  
Db 1312 ACCATCTCCGCAACTCCGGCTCCACAGAACCT 1371  
QY 1312 GTCATCACCTGCTCATCCCGAGGAGGATGCTGCTCTATGGAGAACAGACCTG 1371  
Db 1372 GTCATCACCTGCTCATCCCGAGGAGGATGCTGCTCTATGGAGAACAGACCTG 1431  
QY 1372 TCCAGGGCAGGAGGTGTTCCCTGCTGCTACAGGAAGTGGAGAAATGAGCA 1431  
Db 1432 TCCAGGGCAGGAGGTGTTCCCTGCTGCTACAGGAAGTGGAGAAATGAGCA 1491  
QY 1432 GAAGCAGTACCGTGGCCAGGCCACAGCCACACCACTGGAGAGCATAG 1481  
Db 1492 GAAGCAGTACCGTGGCCAGGCCACACCACTGGAGAGCATAG 1541

RESULT 7  
US-10-50-763-9761  
Sequence 9761, Application US/10450763  
Publication No. US20050196754A1.

GENERAL INFORMATION:

APPLICANT: Hyseq, Inc

TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES

FILE REFERENCE: 7901CP3JUS

CURRENT APPLICATION NUMBER: US/10/450,763

CURRENT FILING DATE: 2003-06-11

PRIOR APPLICATION NUMBER: PCT/US01/08631

PRIOR APPLICATION NUMBER: 09/540,217

PRIOR FILING DATE: 2000-03-31

PRIOR APPLICATION NUMBER: 09/649,167

PRIOR FILING DATE: 2000-08-23

NUMBER OF SEQ ID NOS: 60736

SOFTWARE: Custom

SEQ ID NO 9761

LENGTH: 1729

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SIMILAR

LOCATION: (319)..(393)

OTHER INFORMATION: 674 homologous to Homo sapiens insulin receptor tyrosine kinase substrate, accession number AF119666, Smith-Waterman Score=619.

OTHER INFORMATION: 619.

OTHER INFORMATION: kinase substrate, accession number AF119666, Smith-Waterman Score=619.

Query Match 51.1%; Score 1071; DB 9; Length 1729;  
Best Local Similarity 95.1%; Pred. No. 1.e-213; Indels 17; Gaps 9;  
Matches 1205; Conservative 0; Mismatches 45;

QY 232 GAGGGAGTGAACGGCTCACGGAGACCTACCGGAATGCTGATGTT 291  
Db 277 CTGGCTGAGAACTCTGCTGTTTAATTAGGATGCCAGATGTTATGGAG 336  
QY 292 GAGCTGAAATTATAACTGGAGAAATTAGAGAAAGCTGTAAGCTGATGAG 351

Qy	337	GGGCTGGAAATTAAACCTACTACGATGGTGGCAAGATCGGTGAGTTGCCACTGGTCC	411	1475	TGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536
Db	352	CTGGCGGAAACCTACTACGATGGTGGCAAGATCGGTGAGTTGCCACTGGTCC	411	1477	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536
Db	397	CTGGCGGAAACCTACTACGATGGTGGCAAGATCGGTGAGTTGCCACTGGTCC	456	Qy	1475	GTATCAG 1481
Db	412	CCGGTGTCAAC-TGACTGGACATGCTCTAGAGATTAGAGTCAAGTCCACAGAAC-	469	Db	1537	GCTTCAG 1543
Qy	457	CCGGTGTCAACTTGACTGGACATGCTCTAGAGATTAGAGTCAAGTCCACAGAAC-	516			
Db	470	TGAGAGAGATGACTT--GATGAAATTAAATTCACAAAGAGATTTCATGAGC	526			
Qy	517	TGAGAGAGATGACTT--GATGAAATTAAATTCACAAAGAGATTTCATGAGC	526			
Db	527	TGAGAGAGATGACTT--GATGAAATTAAATTCACAAAGAGATTTCATGAGC	585			
Qy	577	TGAGAGAGATGACTT--GATGAAATTAAATTCACAAAGAGATTTCATGAGC	576			
Db	586	ACGAGACACAAGATAATTAGTCTTGGAGAATCTCAACGACTGAGTGAAGAGTC	645			
Qy	637	ACGAGACACAAGATAATTAGTCTTGGAGAATCTCAACGACTGAGTGAAGAGTC	696			
Db	646	AGAGGAAAGCAGGAGGCCAACCCACTCAATAATGAAACACAAAGAATTTAGTCTTGGAGAATCTCAACGACTGAGTGAAGAGTC	705			
Qy	697	AGAGGAAAGCAGGAGGCCAACCCACTCAATAATGAAACACAAAGAATTTAGTCTTGGAGAATCTCAACGACTGAGTGAAGAGTC	756			
Db	706	GTGGAGACCGTACTCTCGTCAAGTGAAATCC-AGAAATCATTGAGATGTTGCAA	764			
Qy	757	GTGGAGACCGTACTCTCGTCAAGTGAAATCCATTGAGATGTTGCAA	816			
Db	765	AGAGGCTCTGCTTGAGAGAGAGGGCG-----CTCTCTCTCTGGTGTGATAGACTG	818			
Qy	817	AGAGGCTCTGCTTGAGAGAGAGGGCG-----CTCTCTCTCTGGTGTGATAGACTG	876			
Db	819	TGCGTTSCAA--CCACATACATATATCACTTACAGTCTGAGAACTACTGATT-C	875			
Qy	877	TGCGTTSCAAACCCACATACATATATCACTTACAGTCTGAGAACTACTGATT-C	936			
Db	935	TGATATGATGAGAAATAAGAGCCGCCCTAACCCGGTCTGGAACTCTCAGG	994			
Qy	997	TGATATGATGAGAAATAAGAGCCGCCCTAACCCGGTCTGGAACTCTCAGG	1056			
Db	999	CTTACCCATGATGGAGAGAGCATGTTGAGAAAGATTACGACCTTCTTAAT	1054			
Qy	1057	CTTACCCATGATGGAGAGAGCATGTTGAGAAAGATTACGACCTTCTTAAT	1116			
Db	1055	GCTCAGAAAGATGCCCGCTCTTCAGGAGCATACGGTCTTGATGATA	1114			
Qy	1117	GCTCAGAAAGATGCCCGCTCTTCAGGAGCATACGGTCTTGATGATA	1176			
Db	1115	TGTTTATAACCCACCCACCGCTGCCGGAATTCAAAAGGTAAATAATTCAAGGTA	1174			
Qy	1177	TGTTTATAACCCACCCACCGCTGCCGGAATTCAAAAGGTAAATAATTCAAGGTA	1236			
Db	1175	CTTCGAGAGTCCCTGAGTACGCACTTACGCTTGCTGCAACGGACTACAGATG	1234			
Qy	1237	CTTCGAGAGTCCCTGAGTACGCACTTACGCTTGCTGCAACGGACTACAGATG	1296			
Db	1235	AGAAGCAGAAAGTGGAGACCATCTCCGGCACACTCGGACTCCACAGACCTACTA	1294			
Qy	1297	AGAAGCAGAAAGTGGAGACCATCTCCGGCACACTCGGACTCCACAGACCTACTA	1356			
Db	1295	GCTTGTGACAGGAGATGTCATCGCCTGCTGCTACATCCGGAGGAGGAGTGGCTCT	1354			
Qy	1357	GCTTGTGACAGGAGATGTCATCGCCTGCTGCTACATCCGGAGGAGGAGTGGCTCT	1416			
Db	1355	ATGGAGAACGAGCTGCTGAGGAGGAGTGGCTCCCTGCTGAGTACAGAAGTGC	1414			
Qy	1417	ATGGAGAACGAGCTGCTGAGGAGGAGTGGCTCCCTGCTGAGTACAGAAGTGC	1475			
Qy	1415	TGAGAAGAATGAGAGAGAGACCTGACCTGGCCAGCCACACAGTGAGAA	1474			
Db	1476	TGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1477	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1478	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1479	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1479	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1480	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1481	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1482	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1483	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1484	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1485	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1486	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1487	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1488	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1489	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1490	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1491	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1492	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1493	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1494	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1495	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1496	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1497	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1498	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1499	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Qy	1500	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			
Db	1501	TGGAGAAGAATGAGAGAGAGCTGCTGACCGGCCAGCCACACAGTGAGAA	1536			

RESULT 9  
 US-0-066-543-481  
 ; Sequence 481, Application US/10066543  
 ; Publication No. US20030087818A1  
 ; GENERAL INFORMATION:

RESULT 10  
 US-09-925-301-269  
 ; Sequence 269, Application US/09925301  
 ; Patent No. US20020052308A1

Db 502 ----- TCCCGTGTCTTCGG----- 517 ; APPLICANT: Jiang, Yuqiu  
 Qy 1100 GTCCTTGATGATATGTTAATACCCACGCCACGGCTGCCAATTGACAAGGTTA 1159 ; APPLICANT: Pyle, Ruth A.  
 Db 518 ----- ----- ----- ----- GCAATGATCAAGGAGG 535 ; APPLICANT: Xu, Jiangchun  
 Qy 1160 ATATTCAACAGGTACTTCGGAGATCCCACTTACAGGTACAGTTCGGTCAACGG 1219 ; APPLICANT: Indiras, Carol Joseph  
 Db 536 AATAGGACAGGGTACTTCGGAGATCCCACTTACAGGTACAGTTCGGTCAACGG 595 ; APPLICANT: Lodes, Michael J.  
 Qy 1220 GACTGAACATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1279 ; APPLICANT: Secret, Heather  
 Db 596 GACTGAACATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 655 ; APPLICANT: Carter, Darrick  
 Qy 1280 ACAGACCTTACTCAGCTTGCACAGGGAGATGTCATCGCTCTCATCCCGAGAGA 1339 ; APPLICANT: Smith, Carole L.  
 Db 656 ACAGACCTTACTCAGCTTGCACAGGGAGATGTCATCGCTCTCATCCCGAGAGA ; APPLICANT: Durham, Margarita  
 Qy 1340 AGGATGGCTGCTCTATGGAGAACACGAGCTGTCAGGGGGTGGTCCCGTGTCT 1399 ; APPLICANT: Stolk, John A.  
 Qy 716 AGGATGGCTGCTCTATGGAGAACACGAGCTGTCAGGGGGTGGTCCCGTGTCT 775 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 Qy 1400 CGTACACGAGATGCTGCTGAGAAATGAGACAGACAGAGAGAGAGAGAGAGAG 1459 ; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
 Db 776 CGTACACGAGATGCTGCTGAGAAATGAGACAGACAGAGAGAGAGAGAGAGAG 835 ; FILE REFERENCE: 210121\_563  
 Qy 1460 CCACACAGTGGAGACATCAGGACCGTCACTTGTCTGAGAAATAGCGTGTCT 1519 ; CURRENT APPLICATION NUMBER: US/10/066, 543  
 Db 836 CCACACAGTGGAGACATCAGGACCGTCACTTGTCTGAGAAATAGCGTGTCT 895 ; CURRENT FILING DATE: 2002-01-31  
 Qy 1520 CCCACACGGACTACTGGAAATGCTGTCATGGGGGAGCTGCGCGACAGGAGAG 1579 ; NUMBER OF SEQ ID NOS: 3417  
 Db 896 CCCACACGGACTACTGGAAATGCTGTCATGGGGGAGCTGCGCGACAGGAGAG 955 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 Db 1580 CGGCCAGGAGACATCCACCTTAAGGCCCAAGGCCAGGGGGCTCTA 1639 ; SEQ ID NO: 481  
 Db 956 CGGCCAGGAGACATCCACCTTAAGGCCCAAGGCCAGGGGGCTCTA 1015 ; LENGTH: 625  
 Qy 1640 ACGATGGCAACAGGACTCTGCAAGGCCCTTTCAGGGGCAAGGCCCTTGCAC 1699 ; TYPE: DNA  
 Db 1016 ATGATGCACTGGAGACTCTGCAAGGCCCTTTCAGGGGCAAGGCCCTTGCAC 1075 ; ORGANISM: Homo sapiens  
 Qy 1700 TGAACATCCGGCGACGCTGTGCAAGGCCCTTTCAGGGGCAAGGCCCTTGCAC 1759 ; US-10-066-543-481  
 Db 1076 TGAACATCCGGCGACGCTGTGCAAGGCCCTTTCAGGGGCAAGGCCCTTGCAC 1135 ;  
 Db 1760 GCGAAAGACTCTCC-AGGCTCTCCCTGGAGATGGGGC-GCATCT 1816 ;  
 Db 1136 GCGAAAGACTCTCCCTGGAGCTCTCCGGTTCTCGGATGATGGGGCCTCT 1195 ;  
 Qy 1817 GGTGCGCACTGCTGTGAGGGTCTGGAGCTCTAGTGGAGAGAGCTAAGT 1875 ;  
 Db 1196 GTCGGCACTGCTGTGAGGGTCTGGAGCTCTAGTGGAGAGAGCTAAGT 1255 ;  
 Db 1876 TCTTAAAGCAATCATCTTCTCTGTGTCAGTAGTGGGGAC-AAGTTCCTGCTT 1934 ;  
 Db 1256 TCTTAAAGCAATCATCTTCTCTGTGTCAGTAGTGGGGAC-AAGTTCCTGCTT 1315 ;  
 Qy 1935 AGATAATAGTGAATAGTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAG 1994 ;  
 Db 1316 AGATAATAGTGAATAGTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAG 1375 ;  
 Qy 1995 CTGTCAGAAGAACAGTAACCTGGTTCACTCTTA 2030 ;  
 Db 1376 CTGTCAGAAGAACAGTAACCTGGTTCACTCTTA 1411 ;  
 ;  
 ; APPLICANT: Jiang, Yuqiu  
 ; APPLICANT: Pyle, Ruth A.  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Indiras, Carol Joseph  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secret, Heather  
 ; APPLICANT: Carter, Darrick  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: Durham, Margarita  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
 ; FILE REFERENCE: 210121\_563  
 ; CURRENT APPLICATION NUMBER: US/10/066, 543  
 ; CURRENT FILING DATE: 2002-01-31  
 ; NUMBER OF SEQ ID NOS: 3417  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 481  
 ; LENGTH: 625  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-066-543-481  
 Query Match 28.3%; Score 594; DB 5; Length 625;  
 Best Local Similarity 100.0%; Pred. No. 4.3e-114; Mismatches 0; Indels 0; Gaps 0; Matches 594; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 205 GCGGCCAGCCATGTCGCCGGGGCCGGAGGGTGAACCGCTCTACGGAGACCTAC 264 ;  
 Db 32 GCGGCCAGCCATGTCGCCGGGGCCGGAGGGTGAACCGCTCTACGGAGACCTAC 91 ;  
 Qy 265 CGAAATCTTATGAGACGTCACTCTGGCTGGCTGGAAATTATAAACCTGGGAATAAT 324 ;  
 Db 92 CGAAATCTTATGAGACGTCACTCTGGCTGGCTGGAAATTATAAACCTGGGAATAAT 151 ;  
 Qy 325 TATGAGAAAGCTAAAGCTATGATCTGGAGGAAGCCCTACTACGATGGGGC 384 ;  
 Db 152 TATGAGAAAGCTGTAAAGCTATGATCTGGCTGGAGGAAGCCCTACTACGATGGGGC 211 ;  
 Qy 385 AAGATGGTGAATGTCGCACTGGCTCCCGGTGTCAGTGAATCTGGGACATCTCTCTATA 444 ;  
 Db 212 AAGATGGTGAATGTCGCACTGGCTCCCGGTGTCAGTGAATCTGGGACATCTCTCTATA 271 ;  
 Qy 445 GAGATTCGAATGACCTCAAGAACACTAACGAGAGCTTGTGAATAATTAAATTC 504 ;  
 Db 272 GAGATTCGAATGACCTCAAGAACACTAACGAGAGCTTGTGAATAATTAAATTC 331 ;  
 Qy 505 CACAAAGAGATATCCCTGGAGAGAGATGAACTTGACGTGAATATACAC 564 ;  
 Db 332 CACAAAGAGATATCCCTGGAGAGAGATGAACTTGACGTGAATATACAC 391 ;  
 Qy 565 GCAACTCTAAAGATAACACACAGACACAGAAATAATTAGTGGCTTCTGGAGAAATTC 624 ;  
 Db 392 GCAACTCTAAAGATAACACACAGACACAGAAATAATTAGTGGCTTCTGGAGAAATTC 451 ;  
 Qy 625 CAACTCTAAAGATAACACACAGACACAGAAATAATTAGTGGCTTCTGGAGAAATTC 684 ;  
 Db 452 CAACTCTAAAGATAACACACAGACACAGAAATAATTAGTGGCTTCTGGAGAAATTC 511 ;  
 Qy 685 GAAACACAGAAATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 744 ;  
 Db 512 GAAACACAGAAATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 571 ;  
 Qy 745 TCACTCAGTGGTTCAGAGAGAGCTGTCAGAGAGAGAGAGAGAGAGAGAG 798 ;  
 Db 572 TTCATTCAGATGGTTCAGAGAGAGCTGTCAGAGAGAGAGAGAGAGAGAG 625 ;

; GENERAL INFORMATION:  
 APPLICANT: Rosen et al.  
 TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 FILE REFERENCE: PA106  
 CURRENT APPLICATION NUMBER: US10/09/925,301  
 CURRENT FILING DATE: 2001-08-10  
 PRIOR APPLICATION NUMBER: PCT/US00/05882  
 PRIOR FILING DATE: 2000-03-08  
 NUMBER OF SEQ ID NOS: 1694  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO: 269  
 LENGTH: 1242  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: (4)  
 OTHER INFORMATION: n equals a,t,g, or c  
 NAME/KEY: misc\_feature  
 LOCATION: (31)  
 OTHER INFORMATION: n equals a,t,g, or c  
 NAME/KEY: misc\_feature  
 LOCATION: (46)  
 OTHER INFORMATION: n equals a,t,g, or c  
 NAME/KEY: misc\_feature  
 LOCATION: (460)  
 OTHER INFORMATION: n equals a,t,g, or c  
 NAME/KEY: misc\_feature  
 LOCATION: (1233)  
 OTHER INFORMATION: n equals a,t,g, or c  
 us-09-925-301-269

Query Match 27.5%; Score 576.4; DB 3; Length 1242;  
 Best Local Similarity 95.3%; Pred. No. 2.8e-110;  
 Matches 592; Conservative 1; Mismatches 28; Indels 0; Gaps 0;  
 Qy 1410 GTTGCTGAGAAATGAGACAGAACGGTGGACCGTGCACCCAAAGCCCCAACAGT 1469  
 239 GGTGGTGAAGACATTATCTAACAGTGTGTCTTTGGTTGAGCCCAACACGT 298  
 Db 1470 GAGAACCTCAGACCCGAGACTGTCTGAGATAAGCTGTGTGTATCCCCAACCGA 1529  
 299 GAGGAGCATCAAGCAGCTGAGACTGTGTGTATCCCCAACCGA 358  
 Db 1530 CTACTGGATGCTGTCTGAGGGGAGCTGCGACAGGAGAGATTGCCAGAC 1589  
 Qy 359 CTACTGGATGCTGTATCTATGGGGCAAGTGTGGAGAGGAGATTGCCAGAC 418  
 Qy 1590 GACATCCACCTTAAGGCCAACGGCCAGGTCTAACATGGTCAAAGC 1649  
 Db 419 GACATCCACCTTAAGGCCAACGGCCAGGTCTAACATGGTCAAAGC 478  
 Qy 1650 CGGAGCTGAAASCGCCATTCTCAGGGAGAACCCCTTGCCACTGTGAACCTCG 1709  
 Db 479 CGGAGCTGAAASCGCCATTCTCAGGGAGAACCCCTTGCCACTGTGAACCTCG 538  
 Qy 1710 CCCGACTGTGAGATGATGCTGGACCCATATGGATGAGAGGAGCAGACT 1769  
 Db 539 CCCGACTGTGAGATGATGCTGGACCCATATGGATGAGAGGAGCAGACT 598  
 Qy 1770 CTCCCGGGACTCTCGGGTCTCCCTGCGGAATGATGGGGCATCTGTCTGCCACGTGC 1829  
 Db 599 CTCCCGGGCTCTGGTCTCCCTGCGGAATGATGGGGCATCTGTCTGCCACGTGC 658  
 Qy 1830 TGGCGTGGAGAAGCTTCAGGGAGAGCCCTAACCTAAAGTGCCTGTTAACATC 1889  
 Db 659 TGAEGTCTGGAGAAGCTTCAGGGAGAGCCCTAACCTAAAGTGCCTGTTAACATC 718  
 Qy 1890 ATGGTCTGTCTTCAGGATGGTGGAGAAGCTTCAGGGCTTAAGATAATGAGTA 1949  
 Db 719 ATGGTCTGTCTTCAGGATGGTGGAGAAGCTTCAGGGCTTAAGATAATGAGTA 778

RESULT 11  
 US-10-066-543-990  
 ; Sequence 990, Application US/10066543  
 ; Publication No. US20030108781A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Pyle, Ruth A.  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Indiras, Carol Joseph  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Carter, Darrick  
 ; APPLICANT: Ranger, Gary R.  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: Durham, Margarita  
 ; APPLICANT: Stolk, John A.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
 ; FILE REFERENCE: 210121-563  
 ; CURRENT APPLICATION NUMBER: US/10/066,543  
 ; CURRENT FILING DATE: 2002-01-31  
 ; NUMBER OF SEQ ID NOS: 3417  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 990  
 ; LENGTH: 641  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: 5, 362, 424, 427, 444, 449, 565, 567, 584, 602, 609, 611,  
 ; OTHER INFORMATION: n = A,T,C or G  
 us-10-066-543-990

Query Match 27.5%; Score 576.2; DB 5; Length 641;  
 Best Local Similarity 97.3%; Pred. No. 2.3e-110;  
 Matches 578; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
 Qy 205 GCGGGCGAGCCATGTGCCGGGGGGGGGGAGGGGTGACCCGCTAGGGAGCACCTAC 264  
 Db 48 CGGGCGGGAGCCATGTGCCGGGGGGGGGGAGGGGTGACCCGCTAGGGAGCACCTAC 107  
 Qy 265 CGGAGATGTTATGGAAACGCTCAATCTCTGGCTCGGAATTATAACCTGGGAAMAT 324  
 Db 108 CGGAGATGTTATGGAAACGCTCAATCTCTGGCTCGGAATTATAACCTGGGAAMAT 167

Qy 325 TATGAGAAAGCTTAAGCTGATGATCTGGAGGAAAGCCCTACTGGATGGTGTGCC 384  
 Db 168 TATGAGAAAGCTGTAAGCTGATGATCTGGCTGGAGGAAAGCCCTACTGGATGGTGTGCC 227

Qy 385 AAGATCGGTGAGATGCCACTGGTCCCGGTCACTGAATGGGATGTCCTCAT 444  
 Db 228 AAGATCGGTGAGATGCCACTGGTCCCGGTCACTGAATGGGATGTCCTCAT 287

Qy 445 GAGATTCAGTACCCAGAGAACCTAACAGGAGCTTGATGAAATTAAATTAC 504  
 Db 288 GAGATTCAAGTACCCAGAGAACCTAACAGGAGCTTGATGAAATTAAATTAC 347

Qy 505 CACAGAGGATTATNCATAGCTGGAGGAGAGATGACTGAGGAAATATGAC 564  
 Db 348 CACAGAGGATTATNCATAGCTGGAGGAGAGATGACTGAGGAAATATGAC 407

Qy 565 GCAACTCTAAAGATACCAAAACGAGACAAGATAATTAGGTCTTGGAGAAATCC 624

RESULT 12  
US-09-878-134-252  
; Sequence 252, Application US/09878134  
; Publication No. US20020086303A1  
; GENERAL INFORMATION:  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: King, Gordon E.  
; APPLICANT: Xu, Jiaochun  
; Secrist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121\_532  
; CURRENT APPLICATION NUMBER: US/09/878,134  
; CURRENT FILING DATE: 2001-06-07  
; NUMBER OF SEQ ID NOS: 377  
; SOFTWARE: Corixa Invention Disclosure Database  
; SEQ ID NO 252  
; LENGTH: 559  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE: misc\_feature  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(559)  
; OTHER INFORMATION: n = A,T,C or G

Query Match 26 5%; Score 556; DB 3; Length 559;  
Best Local Similarity 99.5%; Pred. No. 3;e-106; Matches 556; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 863 AACTACTGAAATCCAAGCTGGCTGGGGAGGAGCTGTGTGTGATGCCATCAAGTGC 922  
Db 1 ACTACTGAAATCCAAGCTGGCTGGGGAGGAGCTGTGTGTGATGCCATCAAGTGC 60  
Qy 923 CAGAGAAATCTGAATATGATCGAAGAAATTAAGACCCGACCTACCCCGCTCTG 982  
Db 61 CAGAGAAATCTGAATATGATCGAAGAAATTAAGACCCGACCTACCCCGCTCTG 120  
Qy 983 GAACTCTCAAGCTTCAACCTATGATCGAAGAAAGCAATGTCGTTAGAAACATTAGACA 1042  
Db 121 GAACTCTCAACCTATGATCGAAGAAAGCAATGTCGTTAGAAACATTAGACA 180  
Qy 1043 CCCTTCTAAATGTCACCAAGATACTCCCGCTCTCGGCCAGGATATACAGTC 1102  
Db 181 CCCTTCTAAATGTCACCAAGATACTCCCGCTCTCGGCCAGGATATACAGTC 240  
Qy 1103 CCTGATGATGATGTTAATACCGCCAGGGCTGCCAATTACACAGGTTAAATA 1162  
Db 241 CCTTGTATGATGATGTTAATACCGCCAGGGCTGCCAATTACACAGGTTAAATA 300  
Qy 1163 ATTCACAGGACTTCGAAAGATCCAGTTACAGGATCGTTCGTTACACGGAC 1222  
Db 301 ATTCACAGGACTTCGAAAGATCCAGTTACAGGATCGTTCGTTACACGGAC 360  
Qy 1223 TGAACATGATGAGAGAGAGAAAGTCACTTCCGACACTGCGGCTCCAAA 1282  
Db 361 TGAACATGATGAGAGAGAAAGTCACTTCCGACACTGCGGCTCCAAA 420

RESULT 13  
US-10-066-543-321  
; Sequence 321, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Indirilas, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Barrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121\_563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 321  
; LENGTH: 539  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE: misc\_feature  
; NAME/KEY: misc\_feature  
; LOCATION: 20, 21, 51, 61, 71  
; OTHER INFORMATION: n = A,T,C or G

Query Match 24 8%; Score 520; DB 5; Length 539;  
Best Local Similarity 98.7%; Pred. No. 8.4e-99; Matches 522; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 205 GGGGCCAGCATGTCGGGGGGGGGGAGGAGGACCCGCTCAAGGAGACCTAC 264  
Db 11 GGGGCCAGCATGTCGGGGGGGGGGAGGAGGACCCGCTCAAGGAGACCTAC 70  
Qy 265 CGGAATTTATGGAACAGTGTCAATCTGGCTCGAATTAAATACCTGGAAATA 324  
Db 71 NGGAATTTATGGAACAGTGTCAATCTGGCTCGAATTAAATACCTGGAAATA 130  
Qy 325 TATGAGAAAGTGTAAACGGATATGATGTCCTGGAGGAGGTGACACANGTGAGGAACTAC 384  
Db 131 TATGAGAAAGTGTAAACGGATATGATGTCCTGGCTCGAATTAAATACCTGGAAATA 190  
Qy 385 AAGATCGGTGAGATGCCACTGGGCCCCGTGTCACATGACTGGGACATGTCTCTATA 444  
Db 191 AAGATGGTGGAGTCCACTGGGCTCCGTCACTGACTGGGACATGTCTCTATA 250  
Qy 445 GAGATTCACTGATGAGAGAACTACAGGAGCTCTGATGAGAAATTAAATACT 504  
Db 251 GAGATTCACTGATGAGAGAACTACAGGAGCTCTGATGAGAAATTAAATACT 310  
Qy 505 CACAAAGAGATTATCAGATGGAGAGAGATAGACTGGGAAATAATGAA 564

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RESULT 14
US-09-960-253-83
; Sequence 83, Application US/09960253
; Patent No. US-002-023619A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Mohamath, Raodoh
; APPLICANT: Lodes, Michael J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.556
; CURRENT APPLICATION NUMBER: US/09/960, 253
; CURRENT FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 187
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO: 83
; LENGTH: 511
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-960-253-83

Query Match          23.3%; Score 488; DB 3; Length 511;
Best Local Similarity 99.6%; Pred. No. 6e-92; 0; Mismatches 0; Indels 2; Gaps 2
Matches 510; Conservative 0;
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Qy          806 TCTGATTAAGCACTGCGCTTGCACAAACCACTACATATTACACTACAGCTGGAGAC 865
Db          1 TCTGATTAAGCACTGCGCTTGCACAAACCACTACATATTACACTACAGCTGGAGAC 60
Qy          866 TACTGAAATTCCAAAGCTGCGCTTGCACAAACCACTACATATTACACTACAGCTGGAGAC 925
Db          61 TACTGAAATTCCAAAGCTGCGCTTGCACAAACCACTACATATTACACTACAGCTGGAGAC 120
Qy          926 AGAAATCATGAATATGATCGAAGAAATAAGACCCAGCCCTCACCCCGTGTGAA 985
Db          121 AGAAATCATGAATATGATCGAAGAAATAAGACCCAGCCCTCACCCCGTGTGAA 180
Qy          986 CT-CCTCAGCCTCCACCCATGATCGAGAGCAATGGTTAGGAAAGATTACGACCC 104
Db          181 CTCCCTCAGCCTCCACCCATGATCGAGAGCAATGGTTAGGAAAGATTACGACCC 239
Qy          1045 CTTCCTAAATGCTCCAAAGATGCGCCCGCTCTTCAGCGAGCAATACCGAGCTCC 110
Db          240 CTTCTCTAAATGCTCCAAAGATGCGCCCGCTCTTCAGCGAGCAATACCGAGCTCC 299
Db          1105 TTGATCGATATGTTATACCCAGCCACCGCTGCCGAAATCCACAGGTTAAAT 116
Db          300 TTGATCGATATGTTATACCCAGCCACCGCTGCCGAAATCCACAGGTTAAAT 359
Qy          1165 TCAACAGGACTTCGAGAAGTGGAGACCATTCGGCACACTCGGGCTCCACAG 128
Db          360 TCAACAGGACTTCGAGAAGTGGAGACCATTCGGCACACTCGGGCTCCACAG 419
Db          1225 AACATGATGAGAGACGAGAAAGTGGAGACCATTCGGCACACTCGGGCTCCACAG 122
Db          420 AACATGATGAGAGACGAGAAAGTGGAGACCATTCGGCACACTCGGGCTCCACAG 479
Db          1285 ACCTTACTCAGCTTCACAGGGAGATGTCAT 1316

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Copyright (c) 1993 - 2006 Biocceleration Ltd.	GenCore version 5.1.7
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Total number of hits satisfying chosen parameters:	9993994
Minimum DB seq length:	0
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	13: geneseqn2005bs:*
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Result No.	% Match Length DB ID Description
1	2028.4 96 8 3617 13 ACN38684 Acn38684, Tumour-as
2	1821.4 86.9 2317 4 AAT32674 Aat32674 Human cDNA
3	1514.6 72.3 2471 12 ADM86946 Adm86946 Human Pro
4	1484.4 69.1 1510 12 ADM87430 Adm87430 Human EST
5	1216.4 58.0 2120 13 ADR25944 Atr25944 Breast ca
6	1206.4 57.6 1221 14 ADV43099 Adv43099 Human pay
7	1071.1 51.1 1729 5 AAT73957 Aat73957 DNA encod
8	1021.2 48.7 1993 5 AAT73958 Aat73958 DNA encod
9	594 28.3 625 11 ADT94962 Adt94962 Colon can
10	594 28.3 625 11 ADX41444 Adx41444 Human cDN
11	576.4 27.5 1242 3 AAC77755 Aac77755 Human can
12	576.2 27.5 641 11 ADT95471 Aat95471 Human can
13	576.2 27.5 641 11 ADX41953 Adx41953 Human cDN
14	556 26.5 559 6 ABK29725 Abk29725 Colon ade
15	520.8 24.8 539 11 ADT94802 Adt94802 Colon can
16	520.8 24.8 539 11 ADX41284 Adx41284 Human cDN
17	488 23.3 511 6 ABK70212 Abk70212 Human lun
18	470.4 22.4 512 6 ABK70219 Abk70219 Human lun
19	355 16.9 312 12 ADQ64787 Adq64787 Novel hum
ALIGNMENTS	
RESULT 1	ACN38684
ID	ACN38684 standard; cDNA; 3617 BP.
XX	
AC	ACN38684;
XX	
DT	18-NOV-2004 (first entry)
XX	
DE	Tumour-associated antigenic target (TAT) cDNA DNA324988, SEQ ID NO:2351.
XX	
KW	Tumour-associated antigenic target; TAT; human; overexpression; cancer;
KW	tumour; diagnosis; cell proliferative disorder; breast cancer; colorectal cancer; ovarian cancer; liver cancer; cervical cancer; melanoma; leukaemia; hybridisation probe; central nervous system cancer; bladder cancer; pancreatic cancer; chromosome identification; chromosome mapping; gene mapping; gene therapy; cytostatic; gene; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO2004030615-A2.
XX	
PD	15-APR-2004.
XX	
PF	29-SEP-2003; 2003WO-US028547.
XX	
PR	02-OCT-2002; 2002US-0414971P.
XX	
PA	(GETH ) GENENTECH INC.
XX	
PI	Wu TD, Zhang Z, Zhou Y;
XX	
DR	WPI; 2004-347921/32.
XX	
PS	Claim 1; SEQ ID NO 2351; 7273pp; English.
XX	
The invention relates to human tumour-associated antigenic target (TAT)	

QY	721	TCTCGTCAGAGTGAATTCCGAATTCTCGAGATGGTCCAAGAGGCTCTGTGAA	780
Db	721	TCTCGTCAGCTGAATTCCGAATTCTCGAGATGGTCCAAGAGGCTCTGTGAA	780
QY	781	GAGAAAGGGCCTCTCTCTGGTGTATAAGCACTGTGCGCTTCCAAACCATAC	840
Db	781	TATTATCACTTACAGCTGCGAGACTACTGATTCAGTCAAGTGGTCCAAGAGGCTCTGTGAA	840
QY	841	TATTATCACTTACAGCTGCGAGACTACTGATTCAGTCAAGTGGTCCAAGAGGCTCTGTGAA	900
Db	841	TATTATCACTTACAGCTGCGAGACTACTGATTCAGTCAAGTGGTCCAAGAGGCTCTGTGAA	900
QY	901	TCTGTCAGTCATCAACTGCCAGGAAATCATCGATATGTCGAGAAATAAGACC	960
Db	901	TCTGTCAGTCATCAACTGCCAGGAAATCATCGATATGTCGAGAAATAAGACC	960
QY	961	CCAGCTCTACCCCCCTGCTGGAACCTCTCAGGTCTACCATGTCAGTGGTGCCTGGCAGGGAC	1020
Db	961	CCAGCTCTACCCCCCTGCTGGAACCTCTCAGGTCTACCATGTCAGTGGTGCCTGGCAGGGAC	1020
QY	1021	GTCGTAGGAAGATTACGACACCCCTTCATAATGTCACCAAAAGTGCCCCCCCCT	1080
Db	1021	GTCGTAGGAAGATTACGACACCCCTTCATAATGTCACCAAAAGTGCCCCCCCCT	1080
QY	1081	TCAAGGAGACATATCCAGTCCTGTGAGATATGTTAAACCCASCACGSGCTGCC	1140
Db	1081	TCAAGGAGACATATCCAGTCCTGTGAGATATGTTAAACCCASCACGSGCTGCC	1140
QY	1141	CGGAATTCACAAAGGTTAAATTAATTCACCGGTACTTCGAGATCCAGTTCAGGGA	1200
Db	1141	CGGAATTCACAAAGGTTAAATTAATTCACCGGTACTTCGAGATCCAGTTCAGGGA	1200
QY	1201	TCAAGTTCGGTGCAACGGACTGACATGTAAGAGGAAAGTGAAGACCATCTC	1260
Db	1201	TCAAGTTCGGTGCAACGGACTGACATGTAAGAGGAAAGTGAAGACCATCTC	1260
QY	1261	CGGCAACTGCGGGCTCCAAAGAACCTACTCGAGTTGACACGGAGATGTCTACG	1320
Db	1261	CGGCAACTGCGGGCTCCAAAGAACCTACTCGAGTTGACACGGAGATGTCTACG	1320
QY	1321	CTGCTCATCCCGAGGAGAAGGATGCTGCTCTATGGAGACAGCAGCTGTCAG	1380
Db	1321	CTGCTCATCCCGAGGAGAAGGATGCTGCTCTATGGAGACAGCAGCTGTCAG	1380
QY	1381	ACGGGTTGTTCCCGTGTCTACAGGAAGTGTGAGAACATGAGAGGAGCTG	1440
Db	1381	ACGGGTTGTTCCCGTGTCTACAGGAAGTGTGAGAACATGAGAGGAGCTG	1440
QY	1441	ACCGTGCCATCCGACCCACACCGAGTGAAGAGTACCCGTGACTCTGTGAG	1500
Db	1441	ACCGTGCCATCCGACCCACACCGAGTGAAGAGTACCCGTGACTCTGTGAG	1500
QY	1501	AATAGCAGTGTGTCTACCCCCACCGAGACTACTGGAATGCTGTCTAGGGGGAGCT	1560
Db	1501	AATAGCAGTGTGTCTACCCCCACCGAGACTACTGGAATGCTGTCTAGGGGGAGCT	1560
QY	1561	CGCGAAGGAGGAGACATTCGGCAGGACGACATCCACCTTGTGGCCAGCGTCAG	1620
Db	1561	CGCGAAGGAGGAGACATTCGGCAGGACGACATCCACCTTGTGGCCAGCGTCAG	1620
QY	1621	CGCGAAGGAGGAGACATTCGGCAGGACGACATCCACCTTGTGGCCAGCGTCAG	1680
Db	1621	CGCGAAGGAGGAGACATTCGGCAGGACGACATCCACCTTGTGGCCAGCGTCAG	1680
QY	1681	GAAACCCCTTGGCACTGTGAAATCCGGCGACTGTGAGAAATACGCGACCC	1740
Db	1681	GAAACCCCTTGGCACTGTGAAATCCGGCGACTGTGAGAAATACGCGACCC	1740
QY	1741	ATCATTCGATGAGGAGCACGCAAGGACTCTCCGGCCCTCCCGGTTCTCCGGGA	1800
Db	1741	ATCATTCGATGAGGAGCACGCAAGGACTCTCCGGCCCTCCGGTTCTCCGGGA	1800



QY	1108	ATCGATGATGTTAAACCCAGCAACGCTGCCGCCAGATTCAAAAGATGCCGCCAGCTCCAGAGCATACAGACTCC	929
Db	930	ATCGATGATGTTAAACCCAGCAACGCTGCCGCCAGATTCAAAAGATGCCGCCAGCTCCAGAGCATACAGACTCC	989
QY	1168	ACAGGTACTTCGAAAGATCCCAAGTTCAGTACAGATCAGTTCAGTACAGACTGAC	1227
Db	990	ACAGGTACTTCGAAAGATCCCAAGTTCAGTACAGACTGAC	1049
QY	1228	ATCGATGAGAAGGAGAAAGTGAAGAACCCATCTCCGACACTCGGGCTCACAGAAC	1287
Db	1050	ATCGATGAGAAGGAGAAAGTGAAGAACCCATCTCCGACACTCGGGCTCACAGAAC	1109
QY	1288	TTACTCTAGCTTGCACAGGGAGATCATCACGCTGCTCATCCCGAGGAGAGATGC	1347
Db	1110	TTACTCTAGCTTGCACAGGGAGATCATCACGCTGCTCATCCCGAGGAGAGATGC	1169
QY	1348	TCGCTCTATGGAGAACGACCTGTCAGGGAGGAGGGTTGTCGCTGCGTACCG	1407
Db	1170	TCGCTCTATGGAGAACGACCTGTCAGGGAGGAGGGTTGTCGCTGCGTACCG	1229
QY	1408	AAAGTGTGGAAGAAGTGAAGACAGAACGGAGTCACGTGCGCCAGGAGACTGAC	1467
Db	1230	AAAGTGTGGAAGAAGTGAAGACAGAACGGAGTCACGTGCGCCAGGAGACTGAC	1289
QY	1468	CTGAGAGACATCAGCACCGTGAATCTGAGAATAGCAGTCGTTGTCATCCCCACCC	1527
Db	1290	CTGAGAGACATCAGCACCGTGAATCTGAGAATAGCAGTCGTTGTCATCCCCACCC	1349
QY	1528	GCCTACTGGAAATGCTGTCCTGTCCTGGGGCAAGGGGCTAACAGATGGCAGG	1587
Db	1350	GCCTACTGGAAATGCTGTCCTGTCCTGGGGCAAGGGGCTAACAGATGGCAGG	1409
QY	1588	AGGACATCCACCTTAAGGCCCAAGCGTCAAGCCGAGCCGGCTAACAGATGCC	1647
Db	1410	AGGACATCCACCTTAAGGCCCAAGCGTCAAGCCGAGCCGGCTAACAGATGCC	1469
QY	1648	ACGGGACTGCAAAGGCCCTTTCAGCGGAAACCCCTTSCACTGTAACTC	1707
Db	1470	ACGGGACTGCAAAGGCCCTTTCAGCGGAAACCCCTTSCACTGTAACTC	1529
QY	1708	CGCCCACTGTGAGAATGATGCTGCTGCCACCCATTCGATGAGGGACGCCAGGA	1767
Db	1530	CGCCCACTGTGAGAATGATGCTGCTGCCACCCATTCGATGAGGGACGCCAGGA	1589
QY	1768	CTCTCCGGGCTCTCCGGCTCCTGGGATGATGGGGCATCTGCTGCCAGT	1827
Db	1590	CTCTCCGGGCTCTCCGGCTCCTGGGATGATGGGGCATCTGCTGCCAGT	1649
QY	1828	GTGCAAGCTGCGGAAACGCTCAGGGAGGCTAACCTAATGTCGCTGCTAAACAA	1887
Db	1650	GTGCAAGCTGCGGAAACGCTCAGGGAGGCTAACCTAATGTCGCTGCTAAACAA	1709
QY	1888	TCATGCTCTCTTCACTGATGTTGGTTGACAGATTCGCTTCTAGATTAAGT	1947
Db	1710	TCATGCTCTCTTCACTGATGTTGGTTGACAGATTCGCTTCTAGATTAAGT	1769
QY	1948	ATAGTGTAAATGACCACTCAGCCATTAAATATTCTCTATCTGTCAGAAC	2007
Db	1770	ATAGTGTAAATGACCACTCAGCCATTAAATATTCTCTATCTGTCAGAAC	1829
QY	2008	AGTAACTGTGTTCACTCTTA	2030
Db	1830	AGTAACTGTGTTCACTCTTA	1832

human polynucleotide sequence from the present invention. N.B. The sequences for this patent were obtained from the USPRO web site from an equivalent US patent US200401048249A1.

CC Sequence 2471, BP; 681 A; 634 C; 585 G; 571 T; 0 U; 0 Other; XX

Query Match Best Local Similarity 99.7%; Score 1514.6; DB 12; Length 2471; Matches 1528; Conservative 0; Mismatches 4; Indels 1; Gaps 1; QY

499 AAATCCACAAAGGATTATTCACTGAGCTGGAGAGAACTAGACTTGAGTGAATAT 558  
1 AATTCACAAAGGATTTCTTAAAGGAGATACCAACAGACAGATAATTAGTCCTTGGAG 60  
61 ATGACGCACCTCTAAAGAGATACCAACAGACAGATAATTAGTCCTTGGAG 120  
619 AAATCCCAAGCTGAGTTGAGAAGATCAGAGAAACCCAAAGCCAGCAACGACTC 678  
121 AAATCCCAAGCTGAGTTGAGAAGATCAGAGAAACCCAAAGCCAGCAACGACTC 180  
679 AATATGAAACAAAGAATTGAGATGAGATGAGCTTGAGACCGTTACTCTCGTCA 738  
181 AATATGAAACAAAGAATTGAGATGAGCTTGAGACCGTTACTCTCGTCA 240  
Db 739 CAGAAATTCTGAGATGAGCTGAGAAAGGCTGCTGGAGAGACCGTTCTGC 798  
241 CAGAAATTCTGAGATGAGCTGAGACCGTTACTCTCGTCA 300  
QY 799 TCTCTGGTTAGACTGTGCTTCAACCACTATATTACTACCTACGT 858  
301 TTCTGGTTAGACTGTGCTTCAACCACTATATTACTACCTACGT 360  
Db 859 GCGAACTACTGAACTGAGCTGCTGGAGAGACCGTTCTGC 918  
361 GCGAACTACTGAACTGAGCTGCTGGAGAGACCGTTCTGC 420  
Db 919 GTGCCAGAGAAATCTGAAATGATCGAAAGAAATAAAGAACCCAGCCTTACCCCGT 978  
421 GTGCCAGAGAAATCTGAAATGATCGAAAGAAATAAAGAACCCAGCCTTACCCCGT 480  
QY 979 TCTGGAACCTCTGAGGCTTACCCATGATCGAGAGAACATGTGTTAGGAAGATTAC 1038  
481 TCTGGAACCTCTGAGGCTTACCCATGATCGAGAGAACATGTGTTAGGAAGATTAC 540  
Db 1039 GACACCTTCTAAATGTCACCAAGATGCCCGCTCTTCAAGGAGCATAC 1098  
541 GACACCTTCTAAATGTCACCAAGATGCCCGCTCTTCAAGGAGCATAC 600  
1099 AGTCCCTGATGATGTTATAACCGAGGCCACGGCTGCCGAATTCACAAGGTA 1158  
601 AGTCCCTGATGATGTTATAACCGAGGCCACGGCTGCCGAATTCACAAGGTA 660  
1159 AATATTCACAGGACTCTCCGAGATCCGAGATTCAGGATCACTTCTGCAACG 1218  
661 AATATTCACAGGACTCTCCGAGATTCAGGATCACTTCTGCAACG 720  
1219 GCACTGACACATGAGAAAGGAGATGAGACCATCTCCGGACACTGGGCTC 1278  
721 GCACTGACACATGAGAAAGGAGACCATCTCCGGACACTGGGCTC 780  
Db 1279 AACAAAGCTTACTCTAGGAGACAGGACGACCTGCTCATCCGGAG 1338  
781 AACAAAGCTTACTCTAGGAGACAGGACGACCTGCTCATCCGGAG 840  
QY 1339 AAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1398  
841 AAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900  
1399 TCGTACAGGAGATGAGAGAAATGAGAGAGAGAGAGAGAGAGAGAGAG 1458  
901 TGGTACAGGAGATGAGAGAAATGAGAGAGAGAGAGAGAGAGAGAGAG 960

QY 1459 CCCACACCGTGAAGACATCAGCACCGTGAACTGTGAGATAACAGTGTGTCATC 1518  
Db 961 CCCACACCGTGAAGACATCAGCACCGTGAACTGTGAGATAACAGTGTGTCATC 1020  
QY 1519 CCCACACCGTACTTGAGACTTCTTCATGGGAGCTCCGGAGCTCCGGAGAGAGAT 1578  
Db 1021 CCCACACCGTACTTGAGACTTCTTCATGGGAGCTCCGGAGCTCCGGAGAGAGAT 1080  
QY 1579 TCGCCCGAGCACTCCACCTTAAAGCCCAGGGCTAACGGCGAACGGGGCTCT 1638  
Db 1081 TCGTCAGGAGACATCAGCACCTTAAGCCCCGGTCAAGCCGAGACGGGGCTCT 1140  
QY 1639 AACGATGCCAACGGGATGCAAGGCCCTTCTCAAGGGAGAACCCCTTGTGCACT 1698  
Db 1141 AACGATGCCAACGGGATGCAAGGCCCTTCTCAAGGGAGAACCCCTTGTGCACT 1200  
QY 1699 GTGAAACCTCCGGCGAGCTGAGAAGATCAGTGTGAGAGAGAC 1758  
Db 1201 GTGAAACCTCCGGCGAGCTGAGAAGATCAGTGTGAGAGAGAC 1260  
QY 1759 AGCGAAAGACTCTCCGGCTCTCCGGTCTCCCTGGAAATGATGGGGATCTGT 1818  
Db 1261 AGCGAAAGACTCTCCGGCTCTCCGGTCTCCCTGGAAATGATGGGGATCTGT 1320  
QY 1819 CTGCCACGCTGCTGACGGTGGAGCTCTAGTGGAGGGCTRACTCTAATGTCCTGC 1878  
Db 1321 CTGCCACGCTGCTGACGGTGGAGCTCTAGTGGAGGGCTRACTCTAATGTCCTGC 1380  
QY 1779 TTAAGCAATCATG-CCTCTGTTACGAGTGTGGTGTGACAGTGTGGCCATCCTGT 1937  
Db 1381 TTAAGCAATCATGCTGCTGTTACGAGTGTGGTGTGACAGTGTGGCCATCCTGT 1440  
QY 1938 ATTAATGAGTAATGTTAATGACCACTTACCCATTAAATTCTCTTCTATCTG 1997  
Db 1441 ATTAATGAGTAATGTTAATGACCACTTACCCATTAAATTCTCTTCTATCTG 1500  
QY 1998 TTCAGAAACAGTAATCTGGTTCACTTA 2030  
Db 1501 TCAAGAAACAGTAATCTGGTTCACTTA 1533

## RESULT 4

ADM873.0 ID ADM873.0 standard; cDNA; 1510 BP.

XX AC ADM873.0;

XX DT 03-JUN-2004 (first entry)

DE Human EST derived nucleotide sequence SEQ ID NO:523.

XX KW respiratory; cytostatic; antiarthritic; antiinflammatory;

KW gastrointestinal; antibacterial; immunosuppressive; antidiabetic;

KW anti-rheumatic; gene therapy; molecular weight marker; chromosome marker;

KW chromosome tag; genetic fingerprinting; nutritional supplement; cancer;

KW inflammatory condition; arthritis; inflammatory bowel disease;

KW Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;

KW graft versus host disease; human; expressed sequence tag; EST; gene; ss.

XX Homo sapiens.

XX WO2004009834-A2.

XX PR 29-JAN-2004.

XX 19-JUL-2002; 2002WO-US022858.

XX 21-JUL-2001; 2001US-0306971P.

XX 28-MAR-2002; 2002US-00112944.

PA (NUVE- ) NUVELO INC.

XX

PI	Tang YT, Yang Y, Meng G, Zhang J, Ren F, Xue A, Wang J;
Wahrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;	XX
DR	DR
WPI; 2004-143291/14.	XX
P-PSDB; ADM87648.	XX
PT	New isolated polynucleotides and polypeptides, useful for treating, e.g. cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease, Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft versus host disease.
PT	versus host disease.
PR	versus host disease.
XX	PS
Example 2; SEQ ID NO 523; 591pp; English.	XX
CC	The present invention describes an isolated polynucleotide (I): (a) comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b) which encodes a polypeptide with biological activity, where the polynucleotide hybridises to (I) under stringent hybridisation conditions or has greater than 99% sequence identity with (I). (I) has respiratory, cryostatic, antiarthritic, antiinflammatory, gastrointestinal, antibacterial, immunosuppressive, antidiabetic and antirheumatic activities, and can be used for: generating polynucleotides encoding chimeric or fusion proteins and heterologous protein sequences. The polynucleotides can be used to express recombinant protein for analysis, for therapeutic use; as markers for tissues in which the corresponding protein is preferentially expressed; as molecular weight markers on gels; as chromosome markers or tags to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridise and discover genes, related DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to subtract-out known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a gene chip or other support, including for examination of expression patterns; to raise anti-protein antibodies using DNA immunisation techniques; and as an antigen to raise anti-DNA antibodies or elicit another immune response. The polynucleotides and polypeptides can also be used as nutritional sources or supplements, e.g. as a protein or amino acid supplement, as a carbon source, as a nitrogen source or as a source of carbohydrates. The polynucleotides and polypeptides can also be used to treat cancer. The compositions are useful for promoting better or faster closure of non-healing wounds, for the generation and regeneration of tissues, for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage. The compositions can also be used to treat inflammatory conditions (e.g. arthritis, inflammatory bowel disease or Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1 or graft versus host disease. The present sequence represents an expressed sequence tag (EST) derived nucleotide sequence from the present invention. N.B. The sequences for this patent were obtained from the USPRO web site from an equivalent US patent US20040048249A1.
CC	XX
CC	Sequence 1510 BP; 462 A; 372 C; 366 G; 310 T; 0 U; 0 Other; SQ
Query	Best Local Similarity 99.1%; Score 1448.4; DB 12; Length 1510;
Match	Matches 1498; Conservative 0; Mismatches 6; Indels 6; Gaps 4;
CC	CC
OY	217 ATGTCGGGGGCCGAGGAGCTGGACCGGCTCAAGAGGACCTTACCGGGATGTTATGCTG 276
Db	1 ATGTCGGGGGCCGAGGAGCTGGACCGGCTCAAGAGGACCTTACCGGGATGTTATGCTG 60
OY	337 CTAAACCTATGATCTCGCAGGAAGCGCTACTACCGATGGAGTGGCCAGATGGTAG 396
Db	121 GTPAACGCTATGATCTCGCAGGAAGCGCTACTACCGATGGAGTGGCCAGATGGTAG 180
OY	397 ATGGCCACTGCTGCCCGCTGTCAC-TGAACTGGACATGTCCTAGAGATTTCAAG 455
Db	181 ATGGCCACTGCTGCCCGCTGTCAC-TGAACTGGACATGTCCTAGAGATTTCAAG 240
QY	531 GAGTGAAGAGATCGAGAGAAAGCCAGGAGAGGAAAGCCAGGAGAGAATATGCTTGGAGAAATCCAACT 690
Db	421 GAGTGAAGAGATCGAGAGAAAGCCAGGAGAGGAAAGCCAGGAGAGAATATGCTTGGAGAAATCCAACT 480
OY	691 AGAGAATGGATGTTGGAGACCTACTCTGCTGAGATCCAGAAATCTGGAT 750
Db	541 CGAGATGGTCAGAAGGGCTCTGCTGAGAGAGAGGGCCTCTGCTTGTGGAT 600
OY	481 AAGAAATGGATGTTGGAGACCTACTCTGCTGAGATCCAGAAATCTGGAT 540
Db	811 AGACAGTGTCTTGAACACACTATCATTTATCACTTACAGCTGCTGAGACTACTG 870
OY	751 CGAGATGGTCAGAAGGGCTCTGCTGAGAGAGAGGGCCTCTGCTTGTGGAT 610
Db	601 AACAGCTGTCTTGAACACACTATCATTTATCACTTACAGCTGCTGAGACTACTG 660
OY	871 ATTCAGAAGCTCTGGTGGAGGACCTGTTGATGTCATCAGTCAGTCAGAGAA 930
Db	721 ATCATGATATGATCGAGAGATAAAGAGCCAGCTCTACCCCGCTCTACCCCGTGTGGACTCT 780
OY	661 ATTCAGAAGCTCTGGTGGAGGACCTGTTGATGTCATCAGTCAGTCAGAGAA 720
Db	991 CAGGCTTACCCATGATGTCAGAGAGAAGCACTTGGTGGAGAAGTATTAGAGACCCCTTCT 990
OY	781 CAGGCTTACCCATGATGTCAGAGAGAAGCACTTGGTGGAGAAGTATTAGAGACCCCTT 840
Db	1051 AAATGCTCACCAAGATGCCCGCCGCTCTAGGGAGAGATATCCAGTCCCTGTC 1110
OY	721 ATCATGATATGATCGAGAGATAAAGAGCCAGCTCTACCCCGTGTGGACTCT 780
Db	841 AAATGCTCACCAAGATGCCCGCCGCTCTAGGGAGAGATATCCAGTCCCTGTC 900
OY	1111 GATATGTTAAATACCGCCAGGGCTGCCCGAATTCAACAGGTTAAATATTCAAA 1170
Db	901 GATATGTTAAATACCGCCAGGGCTGCCCGAATTCAACAGGTTAAATATTCAAA 960
OY	1171 GTCATCCGGAGATCCCAAGTTACCGGATCACTTGGTGGCAACGGGACTATG 1230
Db	961 GTCATCCGGAGATCCCAAGTTACCGGATCACTTGGTGGCAACGGGACTATG 1020
OY	1231 ATGAGAAGCGAGAAGGACCATCTCCGGCACACTGGGGCTCAACAGACCTA 1290
Db	1021 ATGAGAAGCGAGAAGGACCATCTCCGGCACACTGGGGCTCAACAGACCTA 1080
OY	1291 CTCACTGTTGAGAGGAGATGTCATCGCTGCTCTCCAGGAGAGAGATGGTGG 1350
Db	1081 CTCACTGTTGAGAGGAGATGTCATCGCTGCTCTCCAGGAGAGAGATGGTGG 1140
OY	1351 CTCACTGAGAGGAGATGTCATCGCTGCTCTCCAGGAGAGAGATGGTGG 1410
Db	1141 CTCACTGAGAGGAGATGTCATCGCTGCTCTCCAGGAGAGAGATGGTGG 1200
OY	1411 TTGTCTGGAGAAATGAGAGAGAGAGAGAGATGGTGGCTGCTGCTGCTGCTG 1470
Db	1201 TTGTCTGGAGAAATGAGAGAGAGAGAGATGGTGGCTGCTGCTGCTGCTG 1260
OY	1471 AGAGAGATGAGAGAGAGAGAGAGATGGTGGCTGCTGCTGCTGCTGCTG 1530
Db	1261 AGAGAGATGAGAGAGAGAGAGATGGTGGCTGCTGCTGCTGCTGCTGCTG 1320

QY 1531 TACTTGGATGCTGTCCATGGGGCAGCTGGCAGAGGAGCAGATTGCCAGGAG 1590  
 Db 1321 TACTTGGATGCTGTCCATGGGGCAGCTGGCAGAGGAGCAGATTGCCAGGAG 1380  
 QY 1591 ACATCCACCTTAAAGGCCCAAGGGCTCCAGGAGACCCGCGCTTAACCATGCCAC 1650  
 Db 1381 AGATCCACCTTAAAGGCCCAAGGGCTCCAGGAGACCCGCGCTTAACCATGCCAC 1440  
 QY 1651 GGGACTGCAAGGCCCTTCTACGGGAAAAACCCCTTGCCACTGTGAACTCCG 1710  
 Db 1441 GGGACTGCAAGGCCCTTCTACGGGAAAAACCCCTTGCCACTGTGAACTCCG 1500  
 QY 1711 CCGACTGTGA 1720  
 Db 1501 CCGACTGTGA 1510

RESULT 5  
 ADR25944  
 ID ADR25944 standard; DNA; 2120 BP.  
 XX  
 AC ADR25944;  
 XX  
 DT 21-OCT-2004 (first entry)  
 XX Breast cancer prognosis marker #1805.  
 KW ds; breast cancer; prognosis; gene expression; diagnosis.  
 OS Homo sapiens.  
 PN WO2004065545-A2.  
 XX  
 PD 05-AUG-2004.  
 XX  
 PF 15-JAN-2004; 2004WO-US001100.  
 XX  
 PR 15-JAN-2003; 2003US-00342887.  
 XX  
 PA (ROSE-) ROSETTA INPHARMATICS LLC.  
 PA (NECB-) NETHERLANDS CANCER INST.  
 XX  
 PI Van't Veer LJ, He Y;  
 XX  
 DR WPI; 2004-593473/57.  
 PT Classifying a breast cancer patient according to prognosis comprises  
 PT determining the similarity between the level of expression of each of  
 PT five genes in a cell sample taken from patient, to control levels.  
 PS Disclosure; SEQ ID NO 1805; 226pp; English.  
 XX  
 CC The invention relates to a method of classifying a breast cancer patient  
 CC according to prognosis by determining the similarity between the level of  
 CC expression of each of five genes for which markers are listed in the  
 CC specification, in a cell sample taken from the breast cancer patient, to  
 CC control levels of expression for each respective five genes to obtain a  
 CC patient similarity value. The methods are useful for classifying a breast  
 CC cancer patient according to prognosis. Kits and computer program products  
 CC are useful for data analysis using the diagnostic, prognostic and  
 CC statistical methods of the invention. This sequence corresponds to a  
 CC marker used in the method of the invention.  
 XX Sequence 2120 BP; 625 A; 513 C; 464 G; 518 T; 0 U; 0 Other;  
 SQ

Query Match 59.0%; Score 1216.4; DB 13; Length 2120;  
 Best Local Similarity 98.3%; Pred. No. 3.7e-200; Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 232 GAGGGAGTGAACCGGCTCAGGAGAGCACCTACCGGAATTTATGGAACAGTGTCACTCT 291  
 Db 292 GTGGGGGGAACCTCCCTGATAGGATGCCAGATTTAGGACAGCTGCACT 351

QY 292 GGGCTSGAAATTAAACTGSGAAATTATAGAGAAGCTTAAGCTATGATC 351  
 Db 352 GGCTTGGAATTAAACTGSGAAATTATAGAGAAGCTTAAGCTATGATC 411  
 QY 352 CTGGCAGGAAAGCCCTACTACGATGGATGGCTGGCAAGATCGTGAGATTCGCACTGGTCC 411  
 Db 412 CTGGCAGGAAAGCCCTACTACGATGGATGGCTGGCAAGATCGTGAGATTCGCACTGGTCC 471  
 QY 412 CCCGTGTCACTGAAGTGGGACATGTCCTAGAGATTCAGATTCAGAACAGAACTC 471  
 Db 472 CCCGTGTCACTGAAGTGGGACATGTCCTAGAGATTCAGAACAGAACTC 531  
 QY 532 AAGAGATAGACTTGAGCTGAATAATCACGCAACTCTAAAGATAACAGAA 591  
 Db 592 AAGAGATAGACTTGAGCTGAATAATATGAGCAGCACTCTAAAGATACAGAA 651  
 QY 592 CACAGAGATAATTAGCTTGGAGAATCCAAAGGATTCCAAAGCTGAGTGAAGATCAGAG 651  
 Db 652 CACAGAGATAATTAGCTTGGAGAATCCAAAGGATTCCAAAGCTGAGTGAAGATCAGAG 711  
 QY 652 AAAGCCAAAGCAGGAAAGCAGCACTCAAAATGAGACAAAGAAATGAGATCAGAG 711  
 Db 712 AAAGCCAAAGCAGGAAAGCAGCACTCAAAATGAGACAAAGAAATGAGATCAGAG 771  
 QY 712 ACCGTTACTCTCGTCAGACTGAAATCCAGAAATTCAGAAATTCAGATGGTCAAAAGGGT 771  
 Db 772 CTGCTTGAAGAGAGAGGCGCTCTGCTTCTGTTGATAGACTTGCTTTCAAC 831  
 QY 772 ACCGTTACTCTCGTCAGACTGAAATTCAGAAATTCAGATGGTCAAAAGGGT 831  
 Db 832 CACATACATTATCAGCTACAGTCTGGCAACTACTGATTCCAAAGCTGCTGGTGG 891  
 QY 892 CACATACATTATCAGCTACAGTCTGGCAACTACTGATTCCAAAGCTGCTGGTGG 951  
 Db 892 CAGGAGACCTGTGTGATGCCATCAAGTGTCCAGAGAAATCATGAAATGAGAA 951  
 QY 952 ATAAAGACCCAGCTTACCCCGTCTGAACTCTCTCAGGCTTCACCATGATCAG 1011  
 Db 952 CAGGAGACCTGTGTGATGCCATCAAGTGTCCAGAGAAATCATGAAATGAGAA 1011  
 QY 952 ATAAAGACCCAGCTTACCCCGTCTGAACTCTCTCAGGCTTCACCATGATCAG 1011  
 Db 1012 ATAAAGACCCAGCTTACCCCGTCTGAACTCTCTCAGGCTTCACCATGATCAG 1071  
 QY 1012 ATAAAGACCCAGCTTACCCCGTCTGAACTCTCTCAGGCTTCACCATGATCAG 1071  
 Db 1072 AGAACGATCTGTTAGGAAAGATTACGACACCCCTTCTAAATGCCAAAGATGCC 1131  
 QY 1072 CCCGCTCTTCAGGAGAGCATATACGCTCCCTGTAGTGTATGTTATAACCCAGCC 1131  
 Db 1132 CCCGCTCTTCAGGAGAGCATATACGCTCCCTGTAGTGTATGTTATAACCCAGCC 1191  
 QY 1132 ACCGGTGGCCGAATTCAGAAGGTAATAATTCAAGGTTCTCCAGATCCACCT 1191  
 Db 1192 ACCGGTGGCCGAATTCAGAAGGTTCTCCAGATCCACCT 1251  
 QY 1192 TTACGGCATGAGTTCTGGCAACGGACTACATGAGAAACGAGAAAGTGAAG 1251  
 Db 1252 ACCATTCGGCACTGGGGTCCACAGACTTCTGAGTGTCTGAGGAG 1311  
 QY 1252 ACCATTCGGCACTGGGGTCCACAGACTTCTGAGTGTCTGAGGAG 1311  
 Db 1312 ACCATTCGGCACTGGGGTCCACAGACTTCTGAGTGTCTGAGGAG 1371  
 QY 1312 GTCATCACTGCTCATCCGGAGAGGATGGCTGCTCTATGGAGAACGAGCTG 1371  
 Db 1372 GTCATCACTGCTCATCCGGAGAGGATGGCTGCTCTATGGAGAACGAGCTG 1431  
 QY 1372 TCCAGGGCAGGGTTGGTCCCTGCTGAGTGTGAGTGTGAGAAGAAATGAGACA 1431

Db	1432	TCCAGGGAGGGGTTGTTCCCGTCGTCGTCGAGGTGCGGAGAAATGGAGACA 1491
Qy	1432	GAAGGAAGTGCCTGGCCACGCCAACACAGTGAAGACATCG 1481
Db	1492	GAAGCAGTGACCCGCCACACCGAGGAGAACCTTCAG 1541
Qy		
RESULT 6		
Adv43099		
ID	ADV43099	standard; cDNA; 1221 BP.
XX		
AC	ADV43099;	
XX		
DT	10-MAR-2005	(first entry)
XX		
DE	Human	psychoneuroendoctrine expressed sequence tag SEQ ID NO 727.
XX		
KW	microarray; psychoneuroendocrinimmune; chronic fatigue; non-insulin dependent diabetes; allergy; immune disorder; inflammation; cancer; neoplasm; infection; expressed sequence tag; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	WO2004108899-A2.	
XX		
PD	16-DEC-2004.	
XX		
PR	04-JUN-2004; 200400-US017686.	
XX		
PR	04-JUN-2003; 20030US-0475915P.	
XX		
PA	(USSH ) US DEPT HEALTH & HUMAN SERVICES.	
XX		
PT	Nicholson A, Vernon SD;	
XX		
DR	WPI: 2005-031682/03.	
XX		
PT	New microarray comprising probes for genes involved in psychoneuroendocrinimmune (PNI) activity, useful in diagnosing a condition associated with PNI activity, e.g., inflammatory or infectious diseases.	
PT		
XX		
PS	Claim 1; SEQ ID NO 727; 254pp; English.	
XX		
CC	The invention relates to a new microarray which comprises probes for genes involved in psychoneuroendocrinimmune (PNI) activity. The microarray is useful in diagnosing a condition associated with PNI activity, such as CRS, type-2 diabetes, allergic condition, inflammation, cancer and infection. The present sequence represents a psychoneuroendocrinimmune gene expressed sequence tag. Note the specificatio mentions SEQ ID NO of up to 3314 but only sequences up to SEQ ID NO 1829 are provided.	
CC		
CC	Sequence 1221 BP; 397 A; 279 C; 288 G; 257 T; 0 U; 0 Other;	
XX		
Query	Match 57.6%; Score 1206.4; DB 14; Length 1221;	
Best Local Similarity 99.9%; Pred. No. 1.9e-198; Matches 1207; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		
Qy		
274	ATGGAAAGCTTCATCTGGGTGGAATTATAAACCTGGAAATTATAGAGAA 333	
1	ATGGAAAGCTTCATCTGGGTGGAATTATAAACCTGGAAATTATAGAGAA 60	
Db	334	GCTGTAACGCTATGATCTGGGGAAAGCTACTAGATGGAGTGGTGGCCAGATCGT 333
Db	61	GCTGTAACGCTATGATCTGGGGAAAGCTACTAGATGGAGTGGTGGCCAGATCGT 120
Qy	394	GAGATGCCACTGGTCCCGCTGCAACTGAAGCTGGGACATGCTCTCATAGAGTTCA 453
Qy	121	GAGATTGCACTGGTCCCGCTGCAACTGAAGCTGGGACATGCTCTCATAGAGTTCA 180
Qy	454	AGTACCCACAAGAAACTCAACGAGGAGTCGATGCAAATTAAAGATTCACAGAAG 513
Db	181	AGTACCCACAAGAAACTCAACGAGTCTTCAGAAATTAAAGATTCACAGAAG 240
Qy	514	ATTATCCATGAGCTGGAGAGAGAGAGTGAACCTGAGCTGAATAATGAAACCACTTA 573
Db	241	ATTATCCATGAGCTGGAGAGAGATAGACTCTGAGATTAATGAAACCACTTA 300
Qy	574	AAAGATACCAACAGACAAAGATAATAGACTCTTGGAGAAATCCAGCTGAG 613
Db	301	AAAGATACCAACAGACAAAGATAATAGACTCTTGGAGAAATCCAGCTGAG 360
Qy	634	TTCAGAGAGATAGAGAGAAACGAGCTCTGAGAAATCCAGCTGAG 633
Db	361	TTCAGAGAGATAGAGAGAAACGAGCTCTGAGAAATCCAGCTGAG 420
Qy	694	GAATTCAGTGTGAGGAGACGCTTACTTCCTCAGAGTGAAATTCAGAAATTCAGCTGCA 753
Db	421	GAATTCAGTGTGAGGAGACGCTTACTTCCTCAGAGTGAAATTCAGAAATTCAGCTGCA 480
Qy	754	GATGGTGCAGAGGTCTGTGAAGAGAGAGGGCTCTGCTTCTGGTIGATA 813
Db	481	GATGGTGCAGAGGTCTGTGAAGAGAGAGGGCTCTGCTTCTGGTIGATA 540
Qy	814	CACTGTGCTTGCACCAACCATACATTAATCTACTACAGTCTGAGACACTACTGAA 873
Db	541	CACTGTGCTTGCACCAACCATACATTAATCTACTACAGTCTGAGACACTACTGAA 600
Qy	874	TCCAGCTGCTCGGTGCAAGGAGACCTGTTGATGCTCATCAAAGTGCCTACAGAATTCAGCTGCA 933
Db	601	TCCAGCTGCTCGGTGCAAGGAGACCTGTTGATGCTCATCAAAGTGCCTACAGAATTCAGCTGCA 660
Qy	934	ATGATATGATGAGAAATAAGACCCAGCCCTACCCCGTCTGGAACCTCTCAG 993
Db	651	ATGATATGATGAGAAATAAGACCCAGCCCTACCCCGTCTGGAACCTCTCAG 720
Qy	994	GCTTCACCCGATGAGAGAACTGTTGAGAGATAGACCCCTTCTAA 1052
Db	721	GCTTCACCCGATGAGAGAACTGTTGAGAGATAGACCCCTTCTAA 780
Qy	1054	TGCTCACCAAGATGCCCGCTCTCAGGAGCATATACAGCTCTGATGAT 1113
Db	781	TGCTCACCAAGATGCCCGCTCTCAGGAGCATATACAGCTCTGATGAT 840
Qy	1114	ATGTTAAATACCCGACGGCTGGCTCCGGCAATTACACAGGTTAAATATTCAGCT 1173
Db	841	ATGTTAAATACCCGACGGCTGGCTCCGGCAATTACACAGGTTAAATATTCAGCT 900
Qy	1174	ACTCCGAAAGATCCAGTTACGGATGCTTGGTGTCAACGGACTGACATGAT 1237
Db	901	ACTCCGAAAGATCCAGTTACGGATGCTTGGTGTCAACGGACTGACATGAT 960
Qy	1234	AAGAGCAGAAAGTCACTTCGGGCTCCACAGACCTACT 1291
Db	961	AAGAGCAGAAAGTCACTTCGGGCTCCACAGACCTACT 1028
Qy	1294	AGCTTGACAGGAGATCTACAGCTCTCATCCCCAGGAGAGGGTGGCTGCCT 1353
Db	1021	AGCTTGACAGGAGATCTACAGCTCTCATCCCCAGGAGAGGGTGGCTGCCT 108
Qy	1354	TATGGAGACAGGAGCTCAACGGGAGGGTGGCTCCGGTGTCAAGAGTTG 141
Db	1081	TATGGAGACAGGAGCTCAACGGGAGGGTGGCTCCGGTGTCAAGAGTTG 114
Qy	1414	CTGGAGAAATGAGAGAGAGCTGACCTGGCTGAGCTGAGCTGAGTTG 147
Db	1141	CTGGAGAAATGAGAGAGAGCTGACCTGGCTGAGCTGAGCTGAGTTG 120
Qy	1474	AGCATCG 1481
Db	1201	AGCTTCAG 1208
RESULT 7		

**AAS73957**  
 ID AAS73957 standard; cDNA; 1729 BP.  
 XX  
 AC  
 XX  
 DT 13-FEB-2002. (first entry)  
 DE DNA encoding novel human diagnostic protein #9761.  
 XX  
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200175067-A2.  
 XX  
 PD 11-OCT-2001.  
 XX  
 PF 30-MAR-2001; 2001WO-US008631.  
 XX  
 PR 31-MAR-2000; 2000US-00540217.  
 PR 23-AUG-2000; 2000US-00649167.  
 XX  
 PA (HYSE-) HYSE INC.  
 XX  
 PI Demanac RT, Liu C, Tang YT;  
 XX  
 DR WPI; 2001-639362/73.  
 DR P-PSDB; ABGB9770.  
 XX  
 PT New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.  
 XX  
 PS Claim 1; SEQ ID NO 9761; 103pp; English.  
 XX  
 The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridization probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (III). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (III). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (III). (I) and (III) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS6197-AAS94564 represent novel human diagnostic coding sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WPO at [ftp://wipo.int/pub/published\\_pct\\_sequences](ftp://wipo.int/pub/published_pct_sequences)  
 XX  
 Sequence 1729 BP; 517 A; 426 C; 389 G; 397 T; 0 U; 0 Other;  
 51.1%; Score 1071; DB 5; Length 1729;  
 Best Local Similarity 95.1%; Pred. No. 4.1e-15;  
 Matches 1205; Conservative 0; Mismatches 45; Indels 17; Gaps 9;  
 Qy 232 GAGGAGGTGACCGGCTACGGAGACCTACCGGAGATGGACAGTCATCT 291  
 Db 277 GGGGGGGTGAAGTCCCTGTGTTATTAGATCGCAGAGTGTGTTGAGCTCT 336  
 Qy 292 GGGCTGCGAAATTAAATTAACCTGGAAAMATTATGAGAGCTGTAACGCTATGTC 351  
 Db 337 GGCGTGCAGATTAACTTAACTGGGGAAAGATATGAGAGCTGTAACGCTATGTC 396  
 Qy 352 CTGGCAGGAAAGGCCTACAGATGGAGTGGCCAGATCGGTGAGATGCCACTGGGCC 411  
 Db 397 CTGGCAGGAAAGGCCTACATGATGGAGTGGCCAGATCGGTGAGATGCCACTGGGCC 456  
 Qy 412 CCGGTGCAAC-TGAACTGGGACATGTCCTCATAGAATTTCAGTACCCACAGAAC- 469  
 Db 457 CCCGTGTCACTTGACCTGGACATGTCCTCATAGAATTTCAGTACCCACAGAAC- 516  
 Qy 470 TCAACGAGTCCTT-GATGAATTAAATTCACAAGAGATATTCCAGTCAGTGGAGTC 526  
 Db 517 TCAACGAGTCCTT-GATGAATTAAATTCACAAGAGATATTCCAGTCAGTGGAGTC 576  
 Qy 527 TGGAGAGAGATAAGACTT-GACGTGAAATATGAGCAGCAACTCTAAAGATACCAA 585  
 Db 577 TGGAGAGAGATAAGACTT-GACGTGAAATATGAGCAGCAACTCTAAAGATACCAA 636  
 Qy 586 AGAGAACACAAGATAATAATTAGATGCTTGGAGAAATCCAAAGCTGTTGAGAGATC 645  
 Db 637 ACAGRAACAGATAATAATTAGATGCTTGGAGAAATCCAAAGCTGTTGAGAGATC 696  
 Qy 646 AGAGGAAAGCCAGGAGGAGGCAAAACACTCAAATGAGCACAGAAAGAATGATPAT 705  
 Db 697 AGAGGAAAGCCAGGAGGCAAAACACTCAAATGAGCACAGAAAGAATGATPAT 756  
 Qy 706 CTGGAGCCGTACTTCTGTCAGAGAAATCC-AGAAATTCTGAGATGGTGCNA 764  
 Db 757 CTGGAGACCGTACTTCTGTCAGAGAAATCTGAAATCCATTGAGATGGTGCNA 816  
 Qy 765 AGAGGCTCTGCTGAAAGAGAGGGCTCTGTTCTGGGTGAATRAGACTG 818  
 Db 817 AGAGGCTCTGCTGAAAGAGAGGGCTCTGTTCTGGGTGAATRAGACTG 876  
 Qy 819 TGGCTTGCAA--CCACATACATTATATCACTAAAGTCTGCTGAGACTACTGAAT-C 875  
 Db 877 TGCCTTCTCACACCCATACATTATATCACTAAAGTCTGCTGAGACTACTGAAT-C 936  
 Qy 876 CAAGCTCTCTGCTGGGGAGCTCTGCTGAGATGCAAGTG-CCAGAAATCA 934  
 Db 937 CAAGCTCTCTGCTGGGGAGCTCTGCTGAGATGCAAGTGCCAGAAATCA 996  
 Qy 935 TGAATATGATCGAGAAATAAGAACCCAGCCCTACCCCCGCTCTGAGACTCTGAGG 994  
 Db 997 TGAATATGATCGAGAAATAAGAACCCAGCCCTACCCCCGCTCTGAGACTCTGAGG 1056  
 Qy 995 CTTCACCATGATGAGAGAACAACTGGTGGAGAAGATTAGAGAACCCCTTCAAT 1054  
 Db 1057 CTTCACCATGATGAGAGAACAACTGGTGGAGAAGATTAGAGAACCCCTTCAAT 1116  
 Qy 1055 GCTCACCAAAGATGCCCGCTCTTCTAGGAGAGGATACCGATCCCTGATCATA 1114  
 Db 1117 GCTCACCAAAGATGCCCGCTCTTCTAGGAGAGAACAACTGGTGGAGAAGATTAGAGAACCCCTTCAAT 1176  
 Qy 1115 TGTAAATACCCAGCCAGGGCTGCCCGAAATCACAAGGGTAATAATTCAACAGTA 1174  
 Db 1177 TGTAAATACCCAGCCAGGGCTGCCCGAAATCACAAGGGTAATAATTCAACAGTA 1236  
 Qy 1175 CTTGGAGATCCCTTACGCGCATGTTGGCTGGGAACTCACAGGTTAAATTCACAGTA 1234  
 Db 1237 CTTCGAGATCCCTGAGATTCAGCGCATGTTGGCTGGGAACTCACAGGTTAAATTCACAGTA 1296  
 Qy 1235 AGAGCAGAAACTGAGACCACTTCCGCACACTGGGGCTCAACAGAACCTACCA 1294  
 Db 1297 AGAGCAGAACTGAGACCACTTCCGCACACTGGGGCTCAACAGAACCTACCA 1356  
 Qy 1295 GTTGTGACAGGGATCTCATCGCTGCTCATCCCGAGGAGAGATGGCTGCT 1354  
 Db 1357 GCTTGTGACAGGGATCTCATCGCTGCTCATCCCGAGGAGATGGCTGCT 1416  
 Qy 1355 ATGGAGACACGAGCTCCAGGGGGTTGGTCCCGAGGAGATGGCTGCT 1414  
 Db 1417 ATGGAGACACGAGCTCCAGGGGGTTGGTCCCGAGGAGATGGCTGCT 1476  
 Qy 1415 TCGAAGAAATGAGACAGAAGCAGTGGCTGCCACGCCAGCCCCACACAGTGAGAA 1474

Db 1477 TGGAGAAGAAATGAGCAGAACGCAAGTGGACCGAACCCCAGCCAGCCCACACAGTGAAGA 1536 Qy 680 ATATGAGACAAAGAAATTGAGTATGTTGGAGACCGTTACTCTCTCGTCAGAGAAATCC 739  
 Qy 1475 GCATCAG 1481 Db 158 AACTTGAGCTGAATATGAGACTATGAGACCTTACTCTCTCGAGTGAATCC 217  
 Qy AAS73958 standard; cDNA; 1993 BP. Db 740 AQAATTCATGGAGATGGTCAAGAGGTCTGTGAGAGAGGAGGSGCTCTGT 799  
 Qy AAS73958; Db 218 AGAAATTCATGGAGATGGTCAAGAGGTCTGTGAGAGAGGAGGSGCTCTGT 277  
 XX DT 13-FEB-2002 (first entry) Db 800 TCTGGTGATAGCAGTGTGCAACACATATATACATACAGCTG 859  
 XX DE DNA encoding novel human diagnostic protein #9762. Db 278 TCTGGTGATAGCAGTGTGCAACACATATATACATACAGCTG 337  
 XX Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss. Db 860 CAGAACTACTGATTCAGCTGCCTGGTGCAGAGACCTGTGTGATGCCATCAAG 919  
 XX OS Homo sapiens. Db 920 TGCAGAGAAATCATGATATGATGAGAATAAGACCCAGCCTCTACCCGGTGT 979  
 PN WO200175067-A2. Db 398 TGCAGAGAAATCATGATATGATGAGAATAAGACCCAGCCTCTACCCGGTGT 457  
 XX PD 11-OCT-2001. Db 980 CTGGACTCTCAGGCTCACCCATGAGAGAGACCAATGGTTAGGAAGATTAAC 1039  
 XX PP 30-MAR-2001; 2001WO-US008631. Db 458 CTGGACTCTCAGGCTCACCCATGAGAGAGACCAATGGTTAGGAAGATTAAC 501  
 XX PR 31-MAR-2000; 2000US-00540217. Db 502 ----- TCCCTGTCCTCTGG----- 517  
 PR 23-AUG-2000; 2000US-00649167. Db 1100 GTCCTGTATGATGTTAAACCCAGCCACGSGCTGCCCGAATTCACAAAGGTTAA 1159  
 XX PA (HYSE-) HYSEQ INC. Db 518 ----- GCAATGATCAAGCCAGG 535  
 XX DR p-PSDB; ABG09771. Db 1160 ATATTACAGGACTCCGAGATCCAGTTACGGGATCAGTTGGTTGCAAGG 1219  
 XX PT New isolated polynucleotide and encoded polypeptides, useful in Db 536 AATATTACAGGACTCCGAGATCCAGTTACGGGATCAGTTGGTTGCAAGG 595  
 PT diagnostics, forensics, gene mapping, identification of mutations in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (III). (III) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (III). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94561 represent novel human diagnostic coding sequences of the invention. Note: The sequence data for this parent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 1993 BP; 542 A; 491 C; 472 G; 487 T; 0 U; 1 other; Db 1520 CCCACCCACTACTTGGATGCTGTCATGGCGAGCTGGCAAGAGGAGGAGATT 1579  
 CC CC 896 CCCACCCACTACTTGGATGCTGTCATGGCGAGCTGGCAAGAGGAGGAGTT 955  
 CC CC 1400 CGTACAGAGTGTGGGAGAAATGAGACAGAGAGCTGAGCTGGCCACCCAGCC 1459  
 CC CC 776 CGTACAGAGTGTGGGAGAAATGAGACAGAGAGCTGAGCTGGCCACCCAGCC 835  
 CC CC 1460 CCACACAGTGGAGAGCATGAGCACCGTCAACTGTCTGAGAATAGCAGTGTCTCATCC 1519  
 CC CC 836 CCACACAGTGGAGAGCATGAGCACCGTCAACTGTCTGAGAATAGCAGTGTCTCATCC 895  
 CC CC 1580 CGGCCAGGACATCACTTAAAGGCCACGGTCCAGGCCAGGCCGCGCTCTTA 1639  
 CC CC 956 CGGCCAGGACATCACTTAAAGGCCACGGTCCAGGCCAGGCCGCGCTCTTA 1015  
 CC CC 1640 ACGATCCAAAGGGAGTGTGCAAAAGCGCGCTTCTCGGGAGAAACCTTTCACGT 1659  
 CC CC 1016 ACGATCCAAAGGGAGTGTGCAAAAGCGCGCTTCTCGGGAGAAACCTTTCACGT 1075  
 SQ 1700 TGAACCTCCGCGGACTGTGAGGAGATCGCTGGCGACCCATCATCGATGAGGAGACA 1759  
 Best Local Similarity 89.3%; Pred. No. 1.6e-166; Length 1993; Mismatches 1211; Conservative 0; Gaps 6;

1760 GCGGAAAGCTCTGCC-GGCGCTCCGGCTCTCCCTCGGAGTGTATGCGC - GCACTCT 18  
 1136 GCGAAGGACTCTCCAGGGCTCTCGGTTCTCCCTCGGAGTGTATGCGC 19  
 CC 1817 GTCCTGCCAAGTGTCTGACGGTC-GGAAAGCTCACTGAGGCTACTCTAATGCGC 18  
 CC 1196 GTCCTGCCAAGTGTCTGACGGTC-GGAAAGCTCACTGAGGCTACTCTAATGCGC 19  
 CC 1256 TGCTTAAGCAATCTGCTCTCTGTTACGTTAGGTTGGTTGAAAGCTTACTCTAATGCGC 19  
 CC 1935 AAGTAATGAGTAATAGCTATGACCGCTAGCCATTAAATATTCTCTTATT 19  
 CC 1316 AAGTAATGAGTAATAGCTATGACCGCTAGCCATTAAATATTCTCTTATT 13  
 CC 1995 CTGTTCAAGAACGTAACCTGGTTCACTTTA 2030  
 CC Db 1376 CTGTTCAAGAACGTAACCTGGTTCACTTTA 1411

RESULT 9  
 ADT94962  
 ID ADT94962 standard; cDNA; 625 BP.  
 XX  
 AC ADT94962;  
 XX  
 DT 16-DEC-2004 (first entry)  
 DB Colon cancer associated human cDNA sequence #481.  
 XX Colon cancer; T cell; tumour protein; C64AS; C635S; C637S; C640S; C636S;  
 KW humoral immune response; cellular immune response; cytostatic;  
 KW immunostimulant; human; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003087818-A1.  
 XX  
 PD 08-MAY-2003.  
 XX  
 PR 01-FEB-2002; 2002US-00066543.  
 XX  
 PR 02-FEB-2001; 2001US-0267400P.  
 PR 07-FEB-2001; 2001US-0267382P.  
 PR 11-MAY-2001; 2001US-0290322P.  
 PR 12-JUL-2001; 2001US-0305265P.  
 PR 16-AUG-2001; 2001US-0313077P.  
 XX  
 PA (COR1-) COR1XA CORP.  
 XX  
 PI Jiang Y, Chenault RA, Xu J, Indrias CY, Iodes MJ, Secrist H;  
 PI Carter D, Ranger GR, Smith CL, Durham M, Stolk JA;  
 DR WPI; 2003-040540/03.

XX  
 PT New isolated nucleic acids and polypeptides capable of eliciting a  
 PT humoral and/or cellular immune response, useful for diagnosing,  
 PT preventing or treating cancer, particularly colon cancer.  
 XX  
 PS Claim 1; SEQ ID NO 481; 87pp; English.

XX  
 CC The invention relates to polymucleotide and polypeptide sequences  
 CC associated with cancer, particularly colon cancer. Also disclosed are (i)  
 CC an expression vector comprising the polymucleotide, (ii) a host cell  
 CC transformed or transfected with the expression vector, (iii) an isolated  
 CC antibody, or its antigen-binding fragment, which specifically binds to  
 CC the polypeptide, (iv) a method of detecting or determining the presence  
 CC of cancer in a patient, (v) a fusion protein comprising at least one of  
 CC the polypeptides, (vi) an oligonucleotide that hybridises to the  
 CC polymucleotide sequence under highly stringent conditions, and (vii) a  
 CC method of stimulating and/or expanding T cells specific for a tumour  
 CC protein. The polypeptide specifically comprises the amino acid sequence  
 CC





Db 288 GAGATTCAAGTACCCACAGAACTCAACGAGAGCTTGATGAAATTAAATTC 347  
 QY 505 CACAAGAGATTCCATGAGCTGGAGAGAGATAGACTTGAGCTGAATATGAC 564  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 348 CACAAGAGATTATNCATGAGCTGGAGAGAGATAGACTTGAGCTGAATATGAC 407  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 565 GAACTCTAAAGATACCAACAGACACAGATAATTAGCTTGTGAAATTC 624  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 408 GAACTCTAAAGATACCAACAGACACAGATAATTAGCTTGTGAAATTC 467  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 625 CAAGCTGAGTTGAAGAGATGGAGAAAGCCAAAGGAGCTCTCAATAT 684  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 468 CAAGCTGAGTTGAAGAGATGGAGAAAGCCAAAGGAGCTCTCAATAT 527  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 685 GAACACAAGAAATGGAGTTGAGCTTCTCGAGTGTAAATCCAGAA 744  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 528 GAACACAAGAAATGGAGTTGAGCTTCTCGAGTGTAAATCCANAA 587  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 745 TICATGAGTTGAGAAAGCTCTTGAAGAGAGCTCTGGAGAGAGCTTC 798  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 588 TTCAATGAGATGGNTGCAAAANANGCTCTGCTGANAGANAAGCGCTCTGC 641  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 RESULT 13  
 ID ADX41953  
 XX standard; cDNA; 641 BP.  
 AC ADX41953;  
 XX  
 DT 21-APR-2005 (first entry)  
 XX  
 DB Human cDNA encoding colon cancer protein SEQ ID NO 990.  
 KW Cytostatic; Immunostimulant; therapy; diagnosis; colon cancer; neoplasm;  
 KW ss; gene.  
 OS Homo sapiens.  
 XX  
 PN WO200274156-A2.  
 XX  
 PD 26-SEP-2002.  
 XX  
 PR 01-FEB-2002; 2002WO-US002870.  
 PR 02-FEB-2001; 2001US-0267382P.  
 PR 07-FEB-2001; 2001US-0267382P.  
 PR 11-MAY-2001; 2001US-0290322P.  
 PR 12-JULY-2001; 2001US-0305365P.  
 PR 16-AUG-2001; 2001US-0313077P.  
 XX  
 PA (CORT-) CORIXA CORP.  
 XX  
 PI Jiang Y, Chenault RA, Xu J, Indrias CY, Lodes MJ, Secrist H;  
 PI Carter D, Fanger GR, Smith CL, Durham M, Stolk JA;  
 XX  
 DR ABK29726; 2003-040540/03.  
 PT New isolated nucleic acids and polypeptides capable of eliciting a  
 PT humoral and/or cellular immune response, useful for diagnosing,  
 PT preventing or treating cancer, particularly colon cancer.  
 XX  
 PS Claim 1; SEQ ID NO 990; 244pp; English.  
 XX  
 CC The invention relates to a new isolated nucleic acid. The nucleic acids,  
 CC polypeptides, antibodies are useful for diagnosing preventing or  
 CC treating cancer, particularly colon cancer. The nucleic acid and  
 CC polypeptides are also useful in DNA strand invasion, antisense  
 CC inhibition, mutational analysis, nucleic acid purification, isolation of  
 CC transcriptionally active genes, blocking or transcription factor binding,  
 CC genome cleavage or in situ hybridization, and as enhancers of  
 CC transcription or biomarkers. The kits are useful for detecting antibody  
 CC binding. The present sequence represents a human cDNA encoding a colon  
 cancer protein.

XX SQ Sequence 641 BP; 217 A; 127 C; 154 G; 129 T; 0 U; 14 Other;  
 XX Query Match 27.5%; Score 576.2; DB 11; Length 641;  
 XX Best Local Similarity 97.3%; Pred 5.2e-90; Indels 0; Gaps 0;  
 XX Matches 578; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
 QY 205 GCGCCGAGCCATGTCCGGGGCCAGGGTGAACCGCTCAGGAGAGCACCTAC 264  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 48 GCGGCCGAGCCATGTCCGGGGCCAGGGTGAACCGCTCAGGAGAGCACCTAC 107  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 265 CGGATGTGAGACTCAATCTGGCTCGGAATTATAAACCTGGGAAAT 324  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 108 CGGATGTGAGACTCAATCTGGCTCGGAATTATAAACCTGGGAAAT 167  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 325 TATGAGAAGCTGAACTGATCTGAGCTGGAGAAAGCTACTAGATGGAGTGGCC 384  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 168 TATGAGAAGCTGAACTGATCTGAGCTGGAGAAAGCTACTAGATGGAGTGGCC 227  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 385 AAGATGGTGGAGATGGCTGGTCCCGCTGACTCTGAGAACTGAACTGGGAGATGTCCTCATA 444  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 228 AAGATGGTGGAGATGGCTGGTCCCGTGTCACTGAACTGAGTGGAGATGTCCTCATA 287  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 445 GAGATTCAAGTACCCACAGAAACTCAACGAGAGCTGTGATAAATTAAATTC 504  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 288 GAGATTCAAGTACCCACAGAAACTCAACGAGAGCTGTGATAAATTAAATTC 347  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 505 CACAAGAGATTCCATGAGCTGGAGAGAGATAGACTTGAGCTGAATATGAC 564  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 348 CACAAGAGATTATNCATGAGCTGGAGAGAGATAGACTTGAGCTGAATATGAC 407  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 565 GAACTCTAAAGATACCAACGAAACAGATAATTAGAGCTTGTGAAATTC 624  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 408 GAACTCTAAAGATACCAACGAAACAGATAATTAGAGCTTGTGAAATTC 467  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 625 CAAGCTGAGTTGAAGAGATGGAGAAAGCCAGGAGAGCCAAAGCCTAAATAT 684  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 468 CAAGCTGAGTTGAAGAGATGGAGAAAGCCAGGAGAGCCAAAGCCTAAAT 527  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 685 GAACACAAGAAATGGAGTTGAGCTGGAGAGAGATAGACTTGAGCTGAATTCAGAA 744  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 528 GAACACAAGAAATGGAGTTGAGCTGGAGAGAGATAGACTTGAGCTGAATTCAGAA 587  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 745 TICATGAGTTGAGAAAGCTCTTGAAGAGAGCTCTGGAGAGAGGGCCCTCTGC 798  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 588 TTCAATGAGATGGNTGCAAAANANGCTCTGCTGANAGANAAGCGCTCTGC 641  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 RESULT 14  
 ID ABK29726  
 XX standard; cDNA; 559 BP.  
 AC ABK29726;  
 XX  
 DT 23-APR-2002 (first entry)  
 XX  
 DR Colon adenocarcinoma-specific cDNA #252.  
 XX  
 QY 09-JUN-2000; 2000US-0210067P.  
 XX  
 PR 22-NOV-2000; 2000US-0252614P.  
 XX  
 PA (CORT-) CORIXA CORP.  
 XX

PI Meagher MJ, King GE, Xu J, Secreti H;  
DR XX  
PT XX  
PT of colon tumor protein, for detection, diagnosis and therapy of human  
colon cancer.  
XX  
PS XX  
Claim 1; Page 178-179; 211pp; English.  
CC The invention relates to an isolated polynucleotide (I) encoding a  
CC polypeptide (II) comprising a portion of a colon tumour protein. A new  
CC oligonucleotide (III) that hybridises to (I) is useful for determining  
CC the presence of a cancer in a patient. (II) or antigen presenting cells  
CC expressing (I) are useful for simulating and/or expanding T cells  
CC specific for a tumour protein, by contacting T cells with (I), (II) or  
CC antigen-presenting cells that express (I). (I), (II), or antigen  
CC presenting cells that express (II) are useful for treating colon cancer  
CC in a patient by incubating CD4+ and/or CD8+ T cells isolated from a  
CC patient with (I), (II), or antigen presenting cells that express (II),  
CC that T cells proliferate, and administering to the patient an effective  
CC amount of the proliferated T cells, thus inhibiting the development of a  
CC cancer in the patient. A new composition is useful for stimulating an  
CC immune response in a patient. (I) or (II) is useful for stimulating an  
CC pharmaceutical compositions for prevention and treatment of colon cancer  
CC and for the diagnosis and monitoring of the cancers. (I), (II) or an  
CC antibody against (II) is useful for detection, diagnosis and/or therapy  
CC of human colon cancer. (I) is useful as a probe or primer for nucleic  
CC acid hybridisation, and in the design and preparation of ribozyme  
CC molecules for inhibiting expression of (II) in tumour cells. ABK29475-  
CC ABK2851 represent human colon adenocarcinoma specific cDNA sequences of  
CC the invention.

Db	481	ATGGCTGGCTCTATGGAGAACAGCAGCGAGGGTTGTTCCGTCGTCGT	540
Qy	1403	ACACGAAGTGTGAGAGA	1421
Db	541	ACACGAAGTGTGAGAGA	559
RESULT	15		
ADT94802			
ID	ADT94802	standard; cDNA; 539 BP.	
XX			
AC	ADT94802;		
XX			
DT	16-DEC-2004	(first entry)	
XX			
DE	Colon cancer associated human cDNA sequence #321.		
XX			
KW	Colon cancer; T cell; tumour protein; C634S; C635S; C637S; C640S; C636S;		
KW	humoral immune response; cellular immune response; cytostatic;		
KW	immunostimulant; human; SS.		
XX			
OS	Homo sapiens.		
XX			
PN	US2003087818-A1.		
XX			
PD	08-MAY-2003.		
XX			
PF	01-FEB-2002; 2002US-00066543.		
XX			
PR	02-FEB-2001; 2001US-0267400P.		
PR	07-FEB-2001; 2001US-0267382P.		
PR	11-MAY-2001; 2001US-0290322P.		
PR	12-JUL-2001; 2001US-0303265P.		
PR	16-APR-2001; 2001US-0313077P.		

SO Sequence 539 BP; 191 A; 106 C; 132 G; 105 T; 0 U; 5 Other;  
 Query Match 24.8%; Score 520.8; DB 11; Length 539;  
 Best Local Similarity 98.7%; Pred. No. 2.1e-80; Matches 522; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
 Matches 522; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 205 GCGCCCGAGCCATGTCGGGGGGAGGGTGAACGGGTCACGGAGGACCTAC 264  
 Db 11 GCGCCCGAGCCATGTCGGGGGGAGGGTGAACGGGTCACGGAGGACCTAC 70  
 Qy 265 CGGATGTTATGGACAGCTCACTCGGGCTCGGAATTAAACCTGGGAAT 324  
 Db 71 NGGGATGTTATGGACAGCTCACTCGGGCTCGGAATTAAACCTGGGAAT 130  
 Qy 325 TATGAGAAAGCTGTAACGCTATGATCCCTGGAGAAAGCTACTACGATGGAGGCC 384  
 Db 131 TATGAGAAAGCTGTAACGCTATGATCCCTGGAGAAAGCTACTACGATGGAGGCC 190  
 Qy 385 AAGATCGGTAGATGCCCTGGCTCGGCTCAACTGACTGGGACATGCTCTATA 444  
 Db 191 AAGATCGGTAGATGCCCTGGCTCGGCTCAACTGACTGGGACATGCTCTATA 250  
 Qy 445 GAGATTCAAGTACCCACAGAACTCAAGAGAGCTGTGAAATTAAATTC 504  
 Db 251 GAGATTCAAGTACCCACAGAACTCAAGAGAGCTGTGAAATTAAATTC 310  
 Qy 505 CACAAGAGATATCCATGAGCTGGAGAGAATGAGACTTGAGCTGAATATGAC 564  
 Db 311 CACAAGAGATATCCATGAGCTGGAGAGAATGAGACTTGAGCTGAATATGAC 370  
 Qy 565 GCAACTCTAAAGATACCAACAGAACAGATAATTAGCTTGGAGAAATCC 624  
 Db 371 GCAACTCTAAAGATACCAACAGAACAGATAATTAGCTTGGAGAAATCC 430  
 Qy 625 CAAGCTGAGTTGAGAGATCAGAGGAAAGCCAGGGCGAACCCACTCAATT 684  
 Db 431 CAAGCTGAGTTGAGAGATCAGAGGAAAGCCAGGGCGAACCCACTCAATT 490  
 Qy 685 GAACCAAAAGAATTGAGTTGAGAGGAAAGCCAGGGCGAACCCACTCAATT 733  
 Db 491 GAACCAAAAGAATTGAGTTGAGAGGAAAGCCAGGGCGAACCCACTCAATT 539

Search completed: March 20, 2006, 13:54:24  
 Job time : 861 secs

Copyright (c) 1993 - 2006 Biocceleration Ltd.	GenCore version 5.1.7
OM nucleic - nucleic search, using sw model	
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Perfect score: 2096	
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Gapop 10.0 , Gapext 1.0	
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Maximum DB seq length: 2000000000	
Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	
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4: gb_htc:*	
5: gb_est4:*	
6: gb_est5:*	
7: gb_est6:*	
8: gb_est7:*	
9: gb_gss1:*	
10: gb_gss2:*	
11: gb_gss3:*	
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.	
SUMMARIES	
RESULT 1	
DD051599	
LOCUS	DD051599 1479 bp DNA linear GSS 02-JUN-2005
DEFINITION	Homo sapiens LOC555971 gene, VIRTUAL TRANSCRIPT, partial sequence, genomic survey sequence.
ACCESSION	DD051599
VERSION	DD051599.1 GI:66904913
KEYWORDS	GSS.
SOURCE	Homo sapiens (human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE	1. (bases 1 to 1479)
AUTHORS	Nielsen, R., Bustamante, C., Clark, A.G., Gnanowski, S., Sackton, T.B., Hubisz, M.J., Fledel-Alon, A., Tanenbaum, D.M., Civello, D., White, T.J., Sninsky, J.J., Adams, M.D. and Carroll, M.
TITLE	A Scan for Positively Selected Genes in the Genomes of Humans and Chimpanzees (er) PLoS Biol. 3 (6), e170 (2005)
JOURNAL	1586325
PUBLISHED	
REFERENCE	2. (bases 1 to 1479)
AUTHORS	Nielsen, R., Bustamante, C., Clark, A.G., Gnanowski, S., Sackton, T.B., Hubisz, M.J., Fledel-Alon, A., Tanenbaum, D.M., Civello, D., White, T.J., Sninsky, J.J., Adams, M.D. and Carroll, M.
TITLE	Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA
JOURNAL	
COMMENT	This sequence was made by sequencing genomic exons and ordering them based on alignment. Translation starts at the beginning of alignment.
FEATURES	Location/Qualifiers
source	1. .1479
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	/mol_type="genomic DNA"
	/db_xref=taxon:9605
	/chromosome="7"
	<1. .>1479
	/gene="LOC555971"
	/locus_tag="HCA19618"
ORIGIN	
Query Match	70.4% ; Score 1475.8 ; DB 11; Length 1479;
Best Local Similarity	99.9% ; Pred. No. 1e-290; 2; Indels 0; Gaps 0;
Matches	1477; Conservative 0; Mismatches 22
	B1335902 Thd119 Hu

QY	274	ATGGACACTTCATCCGGCTCGAAATTAAACCTGGGAAATTAGAGAA	333
Db	1	ATGGACACTTCATCCGGCTCGAAATTAAACCTGGGAAATTAGAGAA	60
QY	334	GCTGTAACCGCTATGATCCTGGAGAAAGCCCTAAGCTACTACGATGGAGCTGCGCAAGATCGT	393
Db	61	GCTGTAACCGCTATGATCCTGGAGAAAGCCCTAAGCTACTACGATGGAGCTGCGCAAGATCGT	120
QY	394	GAGATGCCCCCTGGTCCCGCTCAACTGAAGCTGACATGGACATGCTCCATAGAGATCA	453
Db	121	GAGATGCCCCCTGGTCCCGCTCAACTGAAGCTGACATGGACATGCTCCATAGAGATCA	180
QY	454	AGTACCCAGAGAAACTCAAGAGAGTCCTGATGAATTAAATTCACAAAGAG	513
Db	181	AGTACCCAGAGAAACTCAAGAGAGTCCTGATGAATTAAATTCACAAAGAG	240
QY	514	ATTATCCATGAGCTGGAGAGAGATGAGCTGACGTCAATTAGAGCACTTA	573
Db	241	ATTATCCATGAGCTGGAGAGAGATGAGCTGACGTCAATTAGAGCACTTA	300
QY	574	AAAAGATACCAAAGAACAGAACAGAACAGAACAGAACAGAACAG	633
Db	301	AAAAGATACCAAAGAACAGAACAGAACAGAACAGAACAGAACAG	360
QY	634	TGGAAGAGATCAGAGAAAGCCAAAGAGAACGCACTCAATAGACACAA	693
Db	361	TGGAAGAGATCAGAGAAAGCCAAAGAGAACGCACTCAATAGACACAA	420
QY	694	GAATTGAGTATGTCGAGCGCTACTCTCGTCAGAGTGAAATCCAGAACATCCTCA	753
Db	421	GAATTGAGTATGTCGAGCGCTACTCTCGTCAGAGTGAAATCCAGAACATCCTCA	480
QY	754	GATGTTGCAAGAGGCTCTGCTGAGAGAGAGGGCTCTGCTTCTGGTGTAG	813
Db	481	GATGTTGCAAGAGGCTCTGCTGAGAGAGAGGGCTCTGCTTCTGGTGTAG	540
QY	814	CACTGTGCTTGAACCAACATACATATGACTAACGCTGCAAGACTGAT	873
Db	541	CACTGTGCTTGAACCAACATACATATTACTAACGCTGCAAGACTGAT	600
QY	874	TCCAGCTGCTCTGGAGGAGCTGTGATGTCATCAAGTCCAGAACATC	933
Db	601	TCCAGCTGCTCTGGAGGAGCTGTGATGTCATCAAGTCCAGAACATC	660
QY	934	ATGATATGTCGAAAGATAAGACCCAGCTCTACCCCGTCTGGACTCTCG	993
Db	661	ATGATATGTCGAAAGATAAGACCCAGCTCTACCCCGTCTGGACTCTCG	720
QY	994	TGTCACCAAGATGTCGAGAGCATGTCGAGAGCATACGCCCTCTAA	1053
Db	781	TGTCACCAAGATGTCGAGAGCATGTCGAGAGCATACGCCCTCTAA	1113
QY	1054	TGTCACCAAGATGTCGAGAGCATGTCGAGAGCATACGCCCTCTAA	1113
Db	781	TGTCACCAAGATGTCGAGAGCATGTCGAGAGCATACGCCCTCTAA	840
QY	1114	ATGTTAAACCCAGCCAGGCTCCCGCTCTGGAGCATACGCCCTCTAA	1173
Db	841	ATGTTAAACCCAGCCAGGCTCCCGCTCTGGAGCATACGCCCTCTAA	900
QY	1174	ACTTCGAAAGATCCAGGTTACGGATGAGTCGGTCAAGGAGTCAAGATG	1233
Db	901	ACTTCGAAAGATCCAGGTTACGGATGAGTCGGTCAAGGAGTCAAGATG	960
QY	1234	AAGAGCAGAGAAAGGAGCATCTCCGGCAACTGGCTCCAAAGACCTAC	1293
Db	961	AAGAGCAGAGAAAGGAGCATCTCCGGCAACTGGCTCCAAAGACCTAC	1020
QY	1294	AGCTTGACAGGAGATGACGACATCTCCGGCAACTGGCTCCAAAGACCTAC	1353
Db	1021	AGCTTGACAGGAGATGACGACATCTCCGGCAACTGGCTCCAAAGACCTAC	1080

QY	1154	TATGGACACGAGCTGTCAGGGAGGGTTGGTCCCTCGTGCTACAGAGATG	1413
Db	1081	TATGGACACGAGCTGTCAGGGAGGGTTGGTCCCTCGTGCTACAGAGATG	1140
QY	1114	CTGGACAAATGAGAGAGCACTGCTGAGATGGCTCAAGGCCAACACAGTGA	1473
Db	1141	CTGGACAAATGAGAGAGCACTGCTGAGATGGCTCAAGGCCAACACAGTGA	1200
QY	1474	AGATCAGACCGTGAAGTGTCTGAGGATGAGCTGCTGAGATGGCTCAAGGCCAACACAGTGA	1533
Db	1201	AGATCAGACCGTGAAGTGTCTGAGGATGAGCTGCTGAGATGGCTCAAGGCCAACACAGTGA	1260
QY	1534	TTCGAATGCTGTCATGGGCAAGCTGGCGAAGGGAGGAGATGGCAGGAGCA	1593
Db	1321	TTCGAATGCTGTCATGGGCAAGCTGGCGAAGGGAGGAGCTAACGATCCACAGGG	1380
QY	1654	ACTGCAAGCCCTTCTCGGGAGAACCCCTTGCACTGGAACCTCCCG	1713
Db	1381	ACTGCAAGCCCTTCTCGGGAGAACCCCTTGCACTGGAACCTCCCG	1440
QY	1714	ACTGTGAGAATGTCCTCGACACCACATCATCGATGA	1752
Db	1441	ACTGTGAGAATGTCCTCGACACCACATCATCGATGA	1479
RESULT 2			
AK004918			
REFERENCE	AK004918		
DEFINITION	AK004918	3245 bp mRNA linear RMC 01-APR-2004	
LOCUS	AK004918	Mus musculus adult male liver cDNA, RIKEN full-length enriched library, clone:130006M19 product:INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE homolog [Homo sapiens], full insert sequence.	
ACCESSION	AK004918		
VERSION	AK004918.2	GI:26338407	
KEYWORDS		HTC; CAP trapper;	
SOURCE		Mus musculus (house mouse)	
ORGANISM		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus;	
REFERENCE	1	Carninci, P. and Hayashizaki, Y.	
AUTHORS		High-efficiency full-length cDNA cloning	
TITLE		Meth. Enzymol. 303, 19-44 (1999)	
JOURNAL		1049636	
PUBLISHED		2	
REFERENCE	2	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.	
AUTHORS		Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes	
JOURNAL		Genome Res. 10 (10), 1617-1630 (2000)	
PUBLISHED		11042159	
REFERENCE	3	Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasai, N., Carninci, P., Kono, H., Akiyama, J., Nishi, K., Kitaibai, T., Tashiro, H., Itoh, M., Sumi, N., Iishi, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsuoto, H., Sakaguchi, S., Ikeyama, T., Kashiwagi, K., Fujii, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watanabe, K., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Muramatsu, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.	
AUTHORS		RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384-microcapillary sequencer	
JOURNAL		Genome Res. 10 (11), 1757-1771 (2000)	
PUBLISHED		11076861	
REFERENCE	4	The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.	
AUTHORS		Functional annotation of a full-length mouse cDNA collection	
JOURNAL		Nature 409, 685-690 (2001)	
REFERENCE	5		

AUTHORS	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
TITLE	Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
JOURNAL	Nature 420, 561-573 (2002)
REFERENCE	6 (bases 1 to 3245)
AUTHORS	Adachi,J., Aizawa,K., Akahira,S., Akimura,T., Arai,A., Aono,H., Arakawa,T., Bono,H., Carninci,P., Fukuda,S., Fukunishi,Y., Furuno,M., Hanagaki,T., Hara,A., Havatsu,N., Hiramoto,K., Hirao,T., Hori,F., Imotani,K., Ishii,Y., Itoh,M., Izawa,M., Kasukawa,T., Kato,H., Kawai,J., Kojima,Y., Kono,H., Kouda,M., Koya,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Nishi,K., Nomure,K., Numazaki,R., Ohno,M., Okazaki,Y., Okido,T., Owa,C., Saito,H., Saito,R., Sakai,C., Sakai,K., Sano,H., Sasaki,D., Shibata,K., Shihata,Y., Shinagawa,A., Shiraki,T., Sogabe,Y., Suzuki,H., Tagami,M., Tagawa,A., Takahashi,F., Tanaka,T., Tejima,Y., Toya,T., Yamamuro,T., Yasunishi,A., Yoshiida,K., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.
TITLE	Direct Submission
JOURNAL	Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 230-0045, Japan (E-mail: genome-res@sc.riken.jp, URL: http://genome.gsc.riken.jp/), Tel: 81-45-503-9222, Fax: 81-45-503-9216)
COMMENT	On Dec 10, 2002 this sequence version replaced gi:12835466. Please visit our web site (http://genome.gsc.riken.jp/) for further details.
FEATURES	cdna library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer 15, GAGAGAGAGAGCGGCAACTGAGTTTCTTTTCTTNN 3', cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5', GAGAGAGAGAGCAAGCTGATTATTATTAACCCCCCCCC 3'], cDNA was cleaved with XbaI and SstI. Cloning sites, 5' end: SstI, 3' end: XbaI. Host: SOIR.
source	<p>Location/Qualifiers</p> <p>1. .3245</p> <p>/organism="Mus musculus"</p> <p>/mol_type="mRNA"</p> <p>/strain="C57BL/6J"</p> <p>/db_xref="FANTOM DB:1300006M19"</p> <p>/db_xref="Raxxon:10090"</p> <p>/clone="1300006M19"</p> <p>/sex="male"</p> <p>/tissue_type="liver"</p> <p>/clone_id="RIKEN full-length enriched mouse cDNA library"</p> <p>/dev_stage="adult"</p> <p>273. .1817</p> <p>/note="unamed protein product; INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE homolog [Homo sapiens] (SPTR_Q9UR4, evidence: FASTY, 90.3%ID, 99.2%length, match=1206)"</p> <p>/codon_start=1</p> <p>/protein_id="BAB23669_1"</p> <p>/db_xref="GI:12836467"</p> <p>/translation="MSRGPEEVNLNTENTYRVMEOFNPGLRNLNLGKQYEVNAM ELEKKYELDVKMMNATKRYQAEKRLKSLKQELKIRRKSSGGRVALKVKHKE IYEVETVTSOEEIQKFIDGCKEALLEKERRFCFLVDRKGSFASHIHYTHQSAELL NSKLIPWQETQDCKTAKPEKIMMEEKLTQPISTPQSPMERSKQMGKQYDT LSKYQDPRPSPRSPKATSPIMDNPAPAOAQDQVLUPIPERKGMIGEIDTIAKRM FPPSYVKKLSENEAMSVPTESSPAPVPSISTVDTETSSVWVPPDPLCIECLSMGATSDK KAGAKPVPSASTRAFSPRBDATSTPSDANGTAKPEPFLSGENPFPATVLRPTVNDR SAP1P"</p> <p>/note="putative"</p> <p>/note="putative"</p>

polyA\_signal

/note="putative"

QY



Db	417	ACAAGAAACTCHATGAGACTCTGTGATGAAATTCAAATTCATAGGATTTATCC	476
Qy	521	ATGAGCTGGAGAGAGATAGAAGCTTGACGTGATGAAATATGAAAGCAACTCTAAAGAT	580
Db	477	ATGAGCTGGAGAGAGACAGAACTTGTGTAAGTAATGAGGCTACTCTTAAGAT	535
Qy	581	ACCAACAGAACAGAAAGATAATAGATGTGTTGGAGAAUTCCAACTGTGAGAAGA	640
Db	537	ATCAACGAGGACAGGATAATTAGATCTTGTGAGAAATAGGACATCTAGGGAGGTGAAGA	596
Qy	641	AGATAGAAGAGAAAGCAAGGAGCGAACCCACTCAATATGACAACAAAGAAATG	700
Qy	597	AGATAGAAGAAAGTCAAGGTGAGCAAAGGCAACTCAATAGGACAAAGAAATTG	655
Db	701	AGTATGTTGGAGACGGTTACTCTCTGTCAGAGTGAATCCAGAAATTCCAGAAATTCATGAGGGTT	760
Qy	657	AGTATGTTGGAGACGGTTACGGCTGCCAGAGTGAATCCAGAAAGTCAAGGTT	716
Qy	761	GCAAGAGGGCTCTGTTGAAGAGAGAGAGAGGCGCTCTGCTTTCTGGTGAATAGACTG	820
Db	717	GCAAAAGAAGCCCTGTGTTGAGGAAAGAGGCGCTCTGCTTTCTGGTGAACAGACTG	776
Qy	821	GCTTGTCAAACACATACATATTATCACTTACAGTCAGTCAGAGACTACTGAAATCCAGC	880
Qy	881	TGCTCTGGTGGCAGGAGACCTCTGTCATGCCCCATTAAGTGCAGAGAAATCTGATA	940
Db	837	TGCCCGGGTGGCAGGAAACCTGTTGATGCCCCACAAAGTCCCAGAGAAATCTGACA	896
Qy	941	TGATGTGAGAAATAAGACCCAGCTTACCCCGTCTGCTTGAGACTCTCTGAGCTTCAC	1000
Db	897	TGATGTGAGAAATAAGACGCCATTCTCCACCCCGTCTGCTTGAGAGCTCCAC	956
Qy	1001	CCATGATCGAGAGAGCAATGTTGGTAAAGATGAGCTGACACCCCTCTTAAATGCTCAC	1060
Db	957	CCATGATCGAGAGAGCAATGTTGGTAAAGATGAGCTGACACCCCTCTTAAATGCTCAC	1016
Db	1061	CAAGATGCCCCCTCTCTTACAGGAGCATATAACAGTCCTTGATGATATGTTA	1120
Qy	1017	CAAGATGCCCTCTCTCAGTCACAGCTAACAGCTAACAGTCCTTGATGACATGTTCA	1076
Qy	1121	ATAAGCCAGCACGGCTGCCGAATTCAAAGGTAATAATTCACAG--GTACTT	1177
Db	1077	ATAACCCAGCTACAGCTGACAGGTTTCAACAGAACACTCCACAGAACACT	1136
Qy	1178	CCGAAGATCCCACTTACAGGATCAGTCCTTGCGTGCACGGACTGACATGTGAGA	1237
Db	1137	GGGAGATCCAGTACAGGATCGTGTGTTCTGTCACCTGGCTGACAGATGTGAGA	1196
Qy	1238	AGCAGAAAGTGAAGGCCATCTTCCCGCACACTGCGGCTCCACAAAGACCTTACTCAGT	1297
Db	1197	AGCAGAAAGTGAAGGCCATCTTCCACACGGCTGGCAACAAATAGACCTACTGAGT	1256
Qy	1298	TTCGACAGGGAGATCTCATCGCTCTCATCCCCAGGAGAGGATGGCTGCTATG	1357
Db	1257	TTGCCAGGGGACGCTCTCACACTGCTCATCCCTGAGGAGAGACGGCTGCTAC	1316
Qy	1358	GAGAACACGAGGTGTCAGGAGCTGACGTGCGCCACGCCAGGCAAGGCCAACCCAGTGAAGCA	1417
Db	1317	GGGAGATGACCCCAAGGGAGGGCTGGTCCATGTCATATAACAGTGTGAG	1376
Qy	1418	AAGAAATGAGACAGAACAGAGCTGACGTGCGCCACGCCAGGCAAGGCCAACCCAGTGAAGCA	1477
Db	1377	AAGAAAT-----GAAGCAATGTCCTACACCAAGCCCTGACCCGTTGAGACCA	1430
Qy	1478	TCACGACCGTGAACCTGTCAGAATGAGCTGCTGTCATCCCCAACCCAGTGAAGCA	1537
Db	1431	TCAGCACGGTGGACTCTGACAGAGAGACGGCTGCTGTCATCCACCCCGACTTGTGAG	1490
Db	1538	AATGTTGTCATGGGGCACCTGGCGACAGGAGGAGATTCGGCCAG-----ACGA	1591





RESULT 6

BUI184787 BU194787 848 bp mRNA linear EST 04-SEP-2002

LOCUS DEFINITION AGECOURT 7825409 NIH\_MGC\_70 Homo sapiens cDNA clone IMAGE:6093297

5' mRNA sequence.

ACCESSION BUI194787

VERSION BU194787.1 GI:22698771

KEYWORDS EST

SOURCE Homo sapiens

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 848)

AUTHORS NIH-MGC http://mgc.ncbi.nih.gov/

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contract: Robert Strausberg, Ph.D.

Email: cggbsx@mail.nih.gov

Tissue Procurement: ATCC

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILN)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LILN at: http://image.llnl.gov

Plate: LILN13362 row: e column: 10

High quality sequence stop: 710.

FEATURES source

1. .848

/organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="taxon:9606"

/clone="IMAGE:6093297"

/issue\_type="epithelial carcinoma"

/lab\_host="DH10B (phage-resistant)"

/clone\_lib="NIH\_MGC\_70"

/note="Organ: pancreas; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.1 kb. Library constructed by Life Technologies."

ORIGIN

Query Match 39.6%; Score 830; DB 5; Length 848;

Best Local Similarity 99.8%; Pred. No. 7.9e-159;

Matches 841; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 953 TAANGACCCAGCCCTACCCCGCTGAGAACCTCTAGGCTCACCCATGATGAGA 1012

Db 1 TAAGACCCAGCCCTACCCCGCTGAGAACCTCTAGGCTCACCCATGATGAGA 60

Qy 1013 GAAGCAATGTTAGGAAGATTAGACGCCCTTAATGTCACAAAGATGCCC 1072

Db 61 GAAGCAATGTTAGGAAGATTAGACGCCCTTAATGTCACAAAGATGCCC 120

Qy 1073 CGCGCTCTTCAGGAGACATACAGTCCTGATGATGTTAAACCCAGCA 1132

Db 121 CGCTCTCTAGGAGAGCATATACAGTCCTGATGATGTTAAACCCAGCA 180

Qy 1133 CGGCTGCCCCGAATTACACAGGGTAATATTCACAGGACTTCGGAGATCCAGT 1192

Db 181 CGGCTGCCCCGAATTACACAGGGTAATATTCACAGGACTTCGGAGATCCAGT 240

Qy 1193 TACAGGGATCGTTGGTCAAGGGATGATGATGAGAGAGAGAAGTGAAGA 1252

Db 241 TACAGGGATCGTTGGTCAACGGGACTGACATGATGAGAGAGAAGTGAAGA 300

Qy 1253 CGATCTCCGCAACTGCGGCCCTACAGGACCTACTGAGCTTGGACAGGAGT 1312

Db 301 CGATCTCCGCAACTGCGGCCCTACAGGACCTACTGAGCTTGGACAGGAGT 360

Qy 1313 TCAATCAGGCTCATCCCCAGGAGAGAGATGGCTCATGGAGAACACGAGGT 1372

FEATURES source

1. .895

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:6086238"

/issue\_type="ductal carcinoma cell line"

/lab\_host="DH10B (phage-resistant)"

/clone\_lib="NIH\_MGC\_110"

Db 361 TCAATCAGGCTCATCCCCAGGAGAGATGGCTTATGGAGAACACGAGGT 420

Qy 1373 CGAAGCGGAGGGTGTCCCGTGTCTGAGCAAGAGATGAGACAG 1432

Db 421 CCAAGGGAGGGTGTCTCCGTGTCTGAGCAAGAGATGAGACAG 480

Qy 1433 AAGCACTGCGCCAAAGCCCAACCCACACAGTGAGAGATCAGACCGTACT 1492

Db 481 AAGCACTGCGCCAAAGCCCAACCCACACAGTGAGAGATCAGACCGTACT 540

Db 541 TGTCTGAGATAGCAGTGTCTCATCCCCACCGACTACTGGATGCTGTCCATGG 600

Qy 1493 TGTCTGAGATAGCAGTGTCTCATCCCCACCGACTACTGGATGCTGTCCATGG 1552

Db 601 GCGCAGCTGCGCAAGGAGAGAGATGCGCAGAGACATCCACCTTAAGGCCAG 660

Qy 1613 CGTCCGAGCCGAGACGCCGCTCTAACGATGCGCACCCGACTGCGAAGACGCGCTTTC 1672

Db 661 CGCCCAAGCCGAGACGCCGCGCTCTAACGATGCGCACCCGACTGCGAAGACGCGCTTTC 720

Qy 1673 TCGGGGAAACCCCTTGCACTGAGACTCGCCGACTGTGAGATGATGCGT 1732

Db 721 TCAGCAGAAA-CCCTTGCACTGAGACTCGCCGACTGTGAGATGATGCGT 779

Qy 1733 CGGCCACCATCATCGTAGAGAGGAGACGCCAGGACTCTCCGGGCTCTGGGTCTCC 1792

Db 780 CGGCCACCATCATCGTAGAGAGGAGACGCCAGGACTCTCCGGGCTCTGGGTCTCC 839

Qy 1793 CTT 1795

Db 840 CTT 842

RESULT 7

BQ888698 BQ888698 895 bp mRNA linear EST 16-AUG-2002

LOCUS DEFINITION AGECOURT 8074118 NIH\_MGC\_110 Homo sapiens cDNA clone IMAGE:6086238

5' mRNA sequence.

ACCESSION BQ888698

VERSION BQ888698.1 GI:22280712

KEYWORDS EST

FEATURES source

ORGANISM Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 895)

AUTHORS NIH-MGC http://mgc.ncbi.nih.gov/

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contract: Robert Strausberg, Ph.D.

Email: cggbsx@mail.nih.gov

Tissue Procurement: ATCC

cDNA Library Preparation: Rubin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILN)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LILN at: http://image.llnl.gov

Plate: LILN2320 row: o column: 07

High quality sequence stop: 705.

FEATURES source

1. .895

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:6086238"

/issue\_type="ductal carcinoma cell line"

/lab\_host="DH10B (phage-resistant)"

/note="Organ: Pancreas; Vector: pONB7; Site:1: XbaI;  
 Site:2: EcoRI; cDNA made by oligo-dT priming.  
 Directionally cloned into EcoRI/XbaI sites using the  
 following 5' adaptor: GGCAGGAG (G). Library constructed by  
 Ling Hong in the laboratory of Gerald M. Rubin (University  
 of California, Berkeley) using ZAP-cDNA synthesis kit  
 (Stratagene) and Superscript II RT (Life Technologies).  
 Note: this is a NIH\_MGC Library."

## ORIGIN

Query Match 38.7%; Score 811.4; DB 5; Length 895;  
 Best Local Similarity 98.2%; Pred. No. 56-155; 4;  
 Matches 863; Conservative 0; Mismatches 11; Indels 5; Gaps 4;  
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 Db 4 AACCTGGGAAATTATGAGAACTGTAACGCTATGTCCTCGCAGGAAACCTA 63  
 QY 369 CTACGA TGGAGTGCCAGATCGGTGAGATCTGTAACCTA 428  
 Db 64 CTACGA TGGAGTGCCAGATCGGTGAGATCTGTAACCTA 123  
 QY 429 GGGACATGTCCTAGAGATGTTCAAGTACGTACCAAGAACCTCAACGAGAGCTCTGATG 488  
 Db 124 GGGACATGTCCTAGAGATGTTCAAGTACGTACCAAGAACCTCAACGAGAGCTCTGATG 183  
 QY 489 AAATTAAACAAATTCCAAAGAGATTCATAGCTAGCTAGCTAGCTGGAGAGAGAGATACTGA 548  
 Db 184 AAATTAAACAAATTCCAAAGAGATTCATAGCTAGCTAGCTAGCTGGAGAGAGATACTGA 243  
 QY 549 CGTGAATATATGAAAGCAACTCTAAAGATACCAACAGACAGATAATTAGA 608  
 Db 244 CGTGAATATATGAAAGCAACTCTAAAGATACCAACAGACAGATAATTAGA 303  
 QY 609 GCTCTTGGAGAACTCCAAAGGTGAGTGAAGAGAGTCAGAGGAAGGCCAGGGAGCC 668  
 Db 304 GTCTTTGGAGAAATCCAAAGGTGAGTGAAGAGATCAGAGGAAGGCCAGGGAGCC 363  
 QY 669 AACCCACTCAATGAACTCAAGAAATTGAGATGTCAGGAGCTTCTGTC 728  
 Db 364 AACCCACTCAATGAACTCAAGAAATTGAGATGTCAGGAGCTTCTGTC 423  
 QY 729 GAGTGAATTCAGAAATTCTGAGATGTCAGGAGCTCTGAGAGAGAG 788  
 Db 424 GAGTGAATTCAGAAATTCTGAGATGTCAGGAGCTCTGAGAGAGAG 483  
 QY 789 GCGCTCTGTTCTGGTGTAAAGCAACTCTGGCTTGGTCAAAACCATATTTATCA 848  
 Db 484 GCGCTCTGTTCTGGTGTAAAGCAACTCTGGCTTGGTCAAAACCATATTTATCA 543  
 QY 849 CTTACAGTCTGAGAGACTACTGAATCCAAAGCTGCTCTGGAGACCTCTGTGA 908  
 Db 544 CTTACAGTCTGAGAGACTACTGAATCCAAAGCTGCTCTGGAGACCTCTGTGA 603  
 QY 909 TGCCATCAAAGTGCAGAGAAATCTGATATCTGAGAAATAAGCACCAGCTC 968  
 Db 604 TGCCATCAAAGTGCAGAGAAATCTGATATCTGAGAAATAAGCACCAGCTC 663  
 QY 969 TACCCCGTCTGAGACTCTCGCTTCAAGATGATGGAGGAAGGAGATGGTTAG 1028  
 Db 664 TACCCCGTCTGAGACTCTCGCTTCAAGATGATGGAGGAAGGAGATGGTTAG 723  
 QY 1029 GAAGATGAGAAGCAACCTTCTTAATGCTCAGGAAAGATG-CCCCCCTCTTCAGGCA 1087  
 Db 724 GAAGATGAGAAGCAACCTTCTTAATGCTCAGGAAAGATG-CCCCCCTCTTCAGGCA 783  
 QY 1088 GAGATATACCGTCTGCTGATGCTATGTTTAT-AACCCACCAAGCTGCTTCAACAGACCTTACTCAGTT 1145  
 Db 784 GAGATATACCGTCTGCTGATGCTATGTTTATTAACCCAGCAAGCTGCTGCCCCGAA 843  
 QY 1146 TCTACAAAGGGTAA--TATACACAGAGCTCTGGAA 1182  
 Db 844 ATCACCAGGGAAATAATCCACACAGTACTCTGAA 892

RESULT 8  
 CA450094/c  
 LOCUS 814 bp mRNA linear EST 08-NOV-2002  
 DEFINITION UI-CF-FNO-afb-o-02-0-UI\_s1 UI-CF-FNO Homo sapiens cDNA clone  
 ACCESSION UI-CF-FNO-afb-o-02-0-UI 3', mRNA sequence.  
 CM450094  
 CA450094.1 GI:24814514  
 VERSION EST.  
 KEYWORDS  
 SOURCE  
 ORGANISM Homo sapiens (human)  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Buteleostomi;  
 Mammalia; Butheria; Euarchontoglires; Primates; Catarrhini;  
 Hominoidea; Homo.  
 (babes 1 to 814)

REFERENCE  
 TITLE  
 JOURNAL  
 PUBLMED  
 COMMENT  
 Contact: McCray, PB  
 McCray, Lab  
 University of Iowa  
 2024 University of Iowa Med Labs, Iowa City, IA 52242, USA  
 Tel: 319 356 4865  
 Fax: 319 356 7171  
 Email: paul-mccray@uiowa.edu  
 Tissue Procurement: Dr. M. J. Welsh, University of Iowa  
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa  
 cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa  
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa  
 Clone Distribution: Researchers may obtain clones from Research  
 Genetics ([www.regenetics.com](http://www.regenetics.com)) or from Open Biosystems  
 Seq primer: M13 FORWARD  
 POLY=A:Yes

## FEATURES

source

1..814  
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 /mol\_type="mRNA"

/db\_xref="taxon:9606"

/clone="UI-CF-FNO-afb-o-02-0-UI"

/tissue\_type="Human Lung Epithelial cells"

/clone\_host="DH10B (Life Technologies) (T1 phage resistant)"

/clone\_lib="UI-CF-FNO"

notes="Organ: Lung; Vector: pTR73-Pac (Pharmacia) with a  
 modified polylinker; Site\_1: EcoR I; Site\_2: Not I;  
 UI-CF-FNO is a subtracted cDNA library derived from two  
 normalized Human lung epithelial cell libraries (EN1 and  
 EN11) The library was subtracted according to according to  
 Bonaldo, Lennon and Soares, Genome Research, 6:791-806,  
 1996. For additional information, contact:  
 bento-soares@uiowa.edu  
 TAG\_TISSUE=Human Lung Epithelial Cell Lines untreated LPS  
 TAG\_LIB=UI-CF-FNO  
 TAG\_SBO=CIGCTCAGGT"

ORIGIN  
 Query Match 38.3%; Score 803.4; DB 6; Length 814;  
 Best Local Similarity 99.1%; Pred. No. 2.1e-153; 0;  
 Matches 807; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
 Gtr to LPS 24h  
 TAG\_LIB=UI-CF-FNO

Query Match 38.7%; Score 803.4; DB 6; Length 814;  
 Best Local Similarity 99.1%; Pred. No. 2.1e-153; 0;  
 Matches 807; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
 QY . 1239 GCGAAACTGAGACCATCTCCGGACACTGGGGCTCCAAAGACCTTACTCAGTT 1298  
 Db 814 GCGAAACTGAGACCATCTCCGGACACTGGGGCTCCAAAGACCTTACTCAGTT 755  
 QY 1239 TGCACAGGAGATGTCATACGCTGCTATCCGGAGAGATGCTGCTCTATGG 1358  
 Db 754 TGCACAGGAGATGTCATACGCTGCTATCCGGAGAGATGCTGCTCTATGG 695  
 QY 1359 AGAACGACGCTCCAAAGGCCAGGGGTTGTCCTCCGCTGCTACAGGAAGTGTGCGA 1418

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		Plate: L11m1362 Row: 1 column: 18	
		High quality sequence stop: 651.	
FEATURES	source		
1.	. 877		
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/clone="IMAGE:6093473"			
/tissue_type="epithelial carcinoma"			
/lab_host=DHL10B (ophage-resistant)			
/clone_lib=NIH_MGC_70			
/note="Organ: pancreas; Vector: pCMV-SPORT6; Site 1: Nott; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.1 kb. Library constructed by Life Technologies."			
ORIGIN			
Query Match		37.9%	Score 734.8; DB 5; Length 877;
Best Local Similarity		97.8%	Pred. No: 1;2e-151;
Matches		859;	Mismatches 0; Indels 12; Gaps 5;
Conservative			
1718	TTAATACCCAGGCCACGCGCTGCCCGAAATCACAAGGTTAACATGAGCTT	1178	
394	AAAGCCGCTTTCAGCGAGAACCCCTTCCACTGGAACCTGGACTG	335	
1719	GACGATGATGCTCGCACCATCATCGATGAGAGCACGCCAGGACTCTCCGGC	1778	
334	GACGATGATGCTCGCACCATCATCGATGAGAGCACGCCAGGACTCTCCGGC	275	
1779	CTCTCGGTTCCTCCCTGCGAATATGCGGCACTCTGTTGCGACGCTGTGAGGTG	1838	
274	CTCTCGGTTCCTCCCTGCGAATATGATGGCGCACTCTGTTGCGACGCTGTGAGGTG	215	
1839	GGAACTTCAAGGAGGCTAACTCTAATGCGCTTGTAGAACATGTTCT	1898	
214	GGAACTTCTGGAGGAGGCTAACTCTAATGCGCTTGTAGAACATGTTCT	155	
1899	TGTTCACGTTGTTGGTGAAGTTCTGCTTAAGATAATGAGTAATAGCTTAAT	1958	
154	TGTTCACGTTGTTGGTGAAGTTCTGCTTAAGATAATGAGTAATAGCTTAAT	95	
1959	GACGACGCTACCCATTAAATTCTCTATCTGTCAGAAACAGTAACATTG	2018	
94	GACTAGCTACCCATTAAATTCTCTATCTGTCAGAAACAGTAACATTG	35	
QY	TTCAACTTAAAGAAAAAAAGAAAAA 2052		
Db	TTTCAACTTAAAGAAAAAAAGAAAAA 1		
RESULT 9			
LOCUS	B0184917	877 bp	mRNA linear EST 04-SEP-2002
DEFINITION	AGENCOURT 782554 NIH_MGC_70	Homo sapiens	cdNA clone IMAGE:6093473
ACCESSION	B0184917		5' mRNA sequence.
VERSION	B0184917.1	GI:22698901	
KEYWORDS	EST		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	1 (bases 1 to 877)		
AUTHORS	NIH_MGC http://mgc.ncbi.nih.gov/.		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL	Unpublished (1999)		
COMMENT	Contact: Robert Strausberg, Ph.D.		
Tissue	cgapbs-r@mail.nih.gov		
cdNA Library Preparation: Life Technologies, Inc.			
cdNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)			
DNA Sequencing by: Agencourt Bioscience Corporation			
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:			

QY	1898	CTGTTCACT-GTACTGGTGACAAAGTTT-CTGCCTTAAGATAATGAGT-AATAG	1952	QY	488	AAATTAAATTCACAAAGAGATATCCATGAGCTGAGAACAGAGATAGACCTG	547
Db	779	CCTTCCCGTAAATGGGTTGACCGTTCTGCCTTATGATAATGAGTAATAG	838	Db	181	AAATTAAATTCACAAAGAGATATCCATGAGCTGAGAACAGAGATAGACCTG	240
QY	1953	TCTATGACCACTCASCCTAAATATTCTCC 1990		QY	548	ACGTGAAATATGAGCAACTCTAAAGATACCAACAGACACAGATAATTAG	607
Db	839	TCTAATGACCGCTCAGCCATTAAATATTCTC 876		Db	241	ACGTGAAATATGAGCAACTCTAAAGATACCAACAGACACAGATAATTAG	300
RESULT	10			QY	608	AGCTTGGAGAATCCAACTGAGTGAAGAGATCAGAAGAACGCCAAGGAAGCC	667
LOCUS	BQ688252	916 bp mRNA linear EST 15-JUL-2002		Db	301	AGCTTGGAGAATCCAACTGAGTGAAGAGATCAGAAGAACGCCAAGGAAGCC	360
DEFINITION	AGENCOURT_8034808 NIH_MGC_110	Homo sapiens cDNA clone IMAGE:6207009		QY	668	GAACCGACTCAAATGAAACAAATGAGTGTGGAGACCGTTACTTCGTC	727
ACCESSION	BQ688252	5', mRNA sequence.		Db	361	GAAACGCACTCAAATATGAGCAACCTCAAAGATAAGATACCAACAGACACAGATAATTAG	420
VERSION	BQ688252.1	GT:21813568		QY	728	AGAGTGAATCCAGAAATTCATGAGATGGTGCAGATGGTGCAGAGAGATCAGAAGAACGCCAAGGAAGCC	787
KEYWORDS	EST	Homo sapiens (human)		Db	421	AGAGTGAATCCAGAAATTCATGAGATGGTGCAGATGGTGCAGAGAGATCAGAAGAACGCCAAGGAAGCC	360
ORGANISM	Homo sapiens			QY	788	GGCGCTCTGCTTCGGTGTGAAGCTGAGCTGTCGGCTTCAGAGACCTCTTGAGAGA	480
REFERENCE	1. (bases 1 to 916)	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarhini; Hominoidea; Homo.		Db	481	GGCGCTCTGCTTCGGTGTGAAGCTGAGCTGTCGGCTTCAGAGACCTCTTGAGAGA	480
AUTHORS	NIH-MGC http://mgc.ncbi.nih.gov/			QY	848	ACTTACAGTCGAGACTACTGAAATTCCAAAGCTGAGTGTGGCTTGTCAACCAACATATTATC	847
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)			Db	541	ACTTACAGTCGAGACTACTGAAATTCCAAAGCTGAGTGTGGCTTGTCAACCAACATATTATC	540
JOURNAL	Unpublished (1999)			QY	908	ATGCCATCAAGTGCAGAGAAATCATGAAATATGATGAGAAATTAGACCCAGCT	967
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgabbs-r@mail.nih.gov			Db	601	ATGCCATCAAGTGCAGAGAAATCATGAAATATGATGAGAAATTAGACCCAGCT	660
TISSUE	Procurement: ATCC			QY	968	CTACCCCGCTCTGAACTCTCAGCTCACCCATGATGAGAGAAATAGACCCAGCT	1027
CDNA	Library Preparation: Rubin Laboratory			Db	661	CTACCCCGCTCTGAACTCTCAGCTCACCCATGATGAGAGAAATAGACCCAGCT	720
Library	Arrayed By: The I.M.A.G.E. Consortium (LNL)			QY	1028	CGAAAGTACACCCCTCTAAATGTCACCAAGATGCCCTCTCAGCA 1087	
Sequencing	by: Agencourt Bioscience Corporation			Db	721	GGAAAGTACACCCCTCTAAATGTCACCAAGATGCCCTCTCAGCA 780	
by:	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov			QY	1088	GAGCATATACCAAGTCC 1104	
FEATURES	source	High quality sequence stop: 673.		Db	781	GAGCATATACCAAGTCC 797	
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/mol type="mRNA"				LOCUS	BT1333892		
/db xref="IMAGE:6207009"				DEFINITION	BT1333892	812 bp mRNA linear EST 30-JUL-2001	
/clone type="ductal carcinoma, cell line"				ACCESSION	BT1333892	mRNA sequence.	
/lab host="DH10B (phage-resistant)"				VERSION	BT1333892.1	GI:15018549	
/clone lib="NIH_MGC_110,"				KEYWORDS	EST		
/db xref="taxon:9606"				ORGANISM	Homo sapiens (human)		
/clone="IMAGE:6207009"				SOURCE	Homo sapiens		
/lab host="DH10B (phage-resistant)"				REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarhini; Homo.		
/note="Organ: pancreas; Vector: pDTB7; Site: 1: XbaI; Site 2: EcoRI; cDNA made by oligo-dT priming, directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley), using ZAP-cDNA synthesis kit (Stratagene) and SuperScript II RT (Life Technologies). Note: this is a NIH_MGC Library."				AUTHORS	NIH-MGC http://mgc.ncbi.nih.gov/		
ORIGIN				TITLE	Unpublished (1999)		
Query Match	37.8%	Score 792.2; DB 5; Length 916;		COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgabbs-r@mail.nih.gov		
Best Local Similarity	99.6%	Pred. No. 4.2e-151; Mismatches 0; Indels 0; Gaps 0;		TISSUE	Procurement: Life Technologies, Inc.		
Matches	794	Conservative 0; Mismatches 3; Indels 0; Gaps 0;		CDNA	Library Preparation: Life Technologies, Inc.		
QY	308	TAACCTGGGAAATATTCTGAGAGCTGTTAACCTATGCTGGAGAAAGCT	367	Library	Arrayed by: Incyte Genomics, Inc.		
Db	1	TAACCTGGGAAATATTCTGAGAGCTTAACTGCTATGCTGGAGAAAGCT	60	Sequencing	by: Incyte Genomics, Inc.		
QY	368	ACTAGATGGTGGTCACTAGAGTTCAAGCACAGAAATCTACAGAGATCTGAC	427	Clone	DNA Sequencing by: Incyte Genomics, Inc.		
Db	61	ACTAGATGGTGGTCACTAGAGTTCAAGCACAGAAATCTACAGAGATCTGAC	120	distribution	MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov		
QY	428	TGGGACATGTCCTCATAGAGTTCAAGCACAGAAATCTACAGAGATCTGAC	487	Plate:	Plate: BT1333892 row: n column: 07		
Db	121	GGGACATGTCCTCATAGAGTTCAAGCACAGAAATCTACAGAGATCTGAC	180	High quality sequence stop: 812.			

Db	780	GACTTGTGTGAGATGCGAGGG	803	FEATURES source
RESULT	12			
BM981661/c				
LOCUS	BM981661	779 bp	mRNA	1 linear EST 21-FEB-2003
DEFINITION	UI-CP-EN1-adi-m-10-0-UI s1	UI-CP-EN1	Homo sapiens	cDNA clone
ACCESSION	BM981661			
VERSION	BM981661.1			
KEYWORDS	EST			
ORGANISM	Homo sapiens			
ORGANISM	Homo sapiens			
FEATURES source				
Query Match	37.0%	Score 775.2;	DB 3;	Length 812;
Best Local Similarity	99.4%	Pred. No. 1.2e-147;		
Matches	779;	Conservative	0;	Mismatches
QY	709	GAGACCGTTACTTCTCGTCAGAGTCGAATCCAGAATTATCGAGATGGTCAAGNG	768	
QY	769	GCTCTGCTGAAAGAGAGGGCTCTGCTTCTGGTGTATAGAGACTGTTGCA	828	
QY	61	GCTCTGCTTGTAGAGAGAGGGCTCTGCTTCTGGTGTATAGAGACTGTTGCA	120	
QY	829	AACCCATACATTATATCTTACCTTACGTCAGTCAGTCAGTCAGTCAGTCAG	888	
Db	121	AACCACATACATTATATCTTACCTTACGTCAGTCAGTCAGTCAGTCAGTCAG	180	
QY	889	TGGCAGGAGACCTGTGTGATGCCCTCAAGTGCAGAATTCATGATGATGCA	948	
QY	181	TGGCAGGAGACCTGTGTGATGCCCTCAAGTGCAGAATTCATGATGATGCA	240	
QY	949	GAATTAAGACCCGCTTACCCCGTCTGAACTCTAGCTTACCCGATGATGATG	1008	
Db	241	GAATTAAGACCCGCTTACCCCGTCTGAACTCTAGCTTACCCGATGATGATG	300	
QY	1009	GAGAGAGCATGTGTTAGAAAGATAGACACCTTCTAATGTCACCAAGATG	1068	
Db	301	GAGAGAGCATGTGTTAGAAAGATAGACACCTTCTAATGTCACCAAGATG	360	
QY	1069	CCCCCGCTCTTCTGGAGAGATACCACTTCTGATGATGATGTTAAATACCA	1128	
Db	361	CCCCCGCTCTTCTGGAGAGATACCACTTCTGATGATGATGTTAAATACCA	420	
QY	1129	GCCAGCGCTGCCCAATTACACAGGGTAAATAATTCAGGACTTCCGAAGATCC	1188	
Db	421	GCCAGCGCTGCCCAATTACACAGGGTAAATAATTCAGGACTTCCGAAGATCC	480	
QY	1189	AGTTACASGATCGTTGGTCAACGGACTGAACATGATGAGAGCAGAAAGTG	1248	
Db	481	AGTTACAGGATCGTTGGTCAACGGACTGAACATGATGAGAGCAGAAAGTG	540	
QY	1249	AAGACATCTCCACACTGGGCTTACAGACCTTACTCGCTTGAGAGGGAA	1308	
Db	541	AAGACATCTCCACACTGGGCTTACAGACCTTACTCGCTTGAGAGGGAA	600	
QY	1309	GATGATCAGGCTCTCATCCCCAGGAGGAGGATGGCTGTCTATGGAGAACGAC	1368	
Db	601	GATGATCAGGCTCTCATCCCCAGGAGGAGGATGGCTGTCTATGGAGAACGAC	660	
QY	1429	ACAGAGGAGCTGAGCTGGCCACGCCAACCAACCACTGAGAGCATGAGAC	1487	
Db	721	ACAGAGGAGCTGAGCTGGCCACGCCAACCAACCACTGAGAGCATGAGAC	779	
QY	1488	GACTTGTGTGAGATGAGCTGT	1511	
FEATURES source				
Query Match	36.7%	Score 768.4;	DB 3;	Length 779;
Best Local Similarity	99.1%	Pred. No. 3e-146;		
ORIGIN				

Matches	772;	Conservative	0;	Mismatches	7;	Indels	0;	Gaps	0;
Qy	1269	TCGGGGTCCACAAGAACCTACTCACTTCACAGGGATGTCACCTGTCAT							
Db	779	TGGGGCTCCACAGACCCCTACTCACTTCACCTGTCACCTGTCAT							
Qy	1329	CCCGAGGAGAGATGGCTGCTCATGGAGACAGGACCTGTCAGGGAGGTG							1328
Db	719	CCCGAGGAGAGATGGCTGCTCATGGAGACAGGACCTGTCAGGGAGGTG							1388
Qy	1389	GTCCCCCTCGTGTACCGAAGTGTGGAGAAATGAGCAAGAGCAGAGCAGTGTG							1448
Db	659	GTCGGCTCGTGTACCGAAGTGTGGAGAAATGAGCAAGAGCAGAGCAGTGTG							600
Qy	1449	CAGCCAAGCCACACCAAGCTGAGAGCATAGCACCGTGAACCTGCTGAGAATGAGCAAGAGCAGTGTG							1449
Db	599	CAGCCAAGCCACACCAAGCTGAGAGCATAGCACCGTGAACCTGCTGAGAATGAGCAAGAGCAGTGTG							540
Qy	1509	TGTGTCATCCCCAACCGACTACTTGGAACTGCTGCTGGGGCAGGTGCCACAG							1509
Db	539	TGTGTCATCCCCAACCGACTACTTGGAACTGCTGCTGGGGCAGGTGCCACAG							480
Qy	1569	GAGAGCAGATTGGCCAGGAGACATCCACCTTAAGGCCACGCTCCAGCCAGAC							1628
Db	479	GAGAGCAGATTGGCCAGGAGACATCCACCTTAAGGCCACGCTCCAGCCAGAC							420
Qy	1629	CGGGCTCTAACGATGGCCAGGAGCTGAAGGGCCTTCTAGGGAGAACC							1688
Db	419	CGGGCTCTAACGATGGCCAGGAGCTGAAGGGCCTTCTAGGGAGAACC							360
Qy	1689	CTTGGCACTTGAAACTCCGGCACTGAGATGATGCTGGCACCATCATCG							1748
Db	359	CTTGGCACTTGAAACTCCGGCACTGAGATGATGCTGGCACCATCATCG							300
Qy	1749	ATGAGGAGACGCCAGGACTCTCGGGGCTCTCGGTCTCCCTGCGGATGATGG							1808
Db	299	ATGAGGAGACGCCAGGACTCTCGGGGCTCTCGGTCTCCCTGCGGATGATGG							240
Qy	1809	CGCATCTCTGTCGCCAGCTGCTGGAGAGCTTCAGGGAGAGCTTAACCTAA							1868
Db	239	CGCATCTCTGTCGCCAGCTGCTGGAGAGCTTCAGGGAGAGCTTAACCTAA							180
Qy	1869	TGTGCACTGCTTAAGCAAACTATGCTTCCTGTTCACGGTAGTGGTCAAGATTCT							1928
Db	179	TGTGCACTGCTTAAGCAAACTATGCTTCCTGTTCACGGTAGTGGTCAAGATTCT							120
Qy	1929	GCCTTAAGATAATGAGTAATAGCTTAATGACCAAGCTCAGCCATTAAATAATTCT							1988
Db	119	GCCTTAAGATAATGAGTAATAGCTTAATGACCAAGCTCAGCCATTAAATAATTCT							60
Qy	1989	CTATTCGTCTCAAGAACAGTAACCTGGTTCACTTTAAAGAAAAAA							2047
Db	59	CTATTCGTCTCAAGAACAGTAACCTGGTTCACTTTAAAGAAAAAA							1
RESULT	13								
RES00695	BUS00695	AGBN COURT _7860835 NIH_MGC_64 Homo sapiens cDNA clone IMAGE:610953	943 bp	mRNA	linear	EST	12-SEP-2002		
DEFINITION									
ACCESSION									
VERSION	BUS00695.1	GI:22802021							
KEYWORDS									
SOURCE	Homo sapiens	(human)							
ORGANISM	Homo sapiens								
	Bukit-Yota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butchero; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo								
REFERENCE	1 (bases 1 to 943)								
AUTHORS	NIH-MGC	http://mgc.ncbi.nlm.nih.gov/							
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)								
JOURNAL	Unpublished (1999)								
COMMENT	Contact: Robert Strausberg, Ph.D.								

Matches 772; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: ATCC

cDNA Library Preparation: NIH/L0G

cDNA Library Arrived by: The I.M.A.G.E. Consortium (LULN)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution by: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LULN at: <http://image1.lnl.gov>

Plate: LUM255 row: j column: 08

High quality sequence start: 43

High quality sequence stop: 453.

Location/Qualifiers

1. .943

/organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="taxon:9606"

/clone="IMAGE:610953"

/lab\_host="DH10B (phage-resistant)"

/clone\_lib="NIH MGC 64"

/notes="vector: pORN7; Site 1: Ceu1; Site 2: SceI; This

library is a size selection of NIH MGC 35, from 3.0-4.5

kb. Size selection done at the National Institute of

Mental Health, NIH. Note: this is a NIH\_MGC Library."

### ORIGIN

#### Query Match

Best Local Similarity

95.3%

Matches

865;

Conservative

0;

Mismatches

32;

Indels

11;

Gaps

8;

Ov	1800	ATGATGGGGCAGTCCTCTCTCCACGGTGTACGGGAGGTCAGTGAGAGGCC	1859	Db	61	GGCTCTTGAGAGAGGGCCTCTGCTTCTGGTATAAGCACTGGSCTTC	120		
Db	677	ATGTATGGGGCCTCTCCACGGTGTACGGGAGGTCAGTGAGAGGCC	736	Ov	828	AAACCACTATATATCTACTAACAGTCAGTGAGACTACTGAATTCAGTGCTCG	887		
Ov	1860	TACTCTATGCGCTCTTACGAAATCTATCTCTCTGTTCAGCTAGTGGGTGA	1919	Db	121	AAACCACTATATATCTACTAACAGTCAGTGAGACTACTGAATTCAGTGCTCG	180		
Db	737	TACTCTATGCGCTCTTACGAAATCTATCTCTCTGTTCAGCTAGTGGGTGA	796	Ov	888	GGCGAGGAGCTGTTGATGCCATCAAGTGCCAGGAATCTGAAATGATCGA	947		
Ov	1920	CAACTTCTGCCCTAAGATAATGACTATGCTTAATGACCAAGCTCAGTGAGAGGCC	1979	Db	181	GGGGAGAGACTGTGTGATGCCATCAAGTGCCAGACTACTGAATTCAGTGCTCG	240		
Db	797	CAACTTCTGCCCTAAGATAATGACTATGCTTAATGACCAAGCTCAGTGCTCG	856	Ov	948	AGAAATAGACCCACGCTTACCCCGTGTGAACTCTCAGGTTACCCCTGAT	1007		
Ov	1980	TATTTCTCTTACGTCAGAACAGTAACCTGTTCACTTTAANNNNN	2039	Db	241	AGATAAGACCCACCTTACCCCTAACGCTCACTGCTGAACTCTCAGGCTTACCCCTGAT	300		
Db	857	TATTTCTCTTACGTCAGAACAGTAACCTGTTCACTTTAANNNNN	916	Ov	1058	GGCCCCCTCTTCAGCAGCATATACAGTCCTGTGATGATGTTAATACCC	1127		
Ov	2040	AAAAAAA 2047		Db	361	GGCCCCCTCTTCAGCAGCATATACAGTCCTGTGATGATGTTAATACCC	420		
Db	917	NNNNNN 924		Ov	1128	AGCAGAGGAGCAATGTTAGAAGATTACACACCCCTCTAAATGTCACCAAGAT	1186		
RESULT 14									
LOCUS	BI335025	996 bp mRNA linear EST 30-JUL-2001		Db	421	AGCCACGCTGCTCCAGGAACTTCAGGAGTCAGTCAGGACTTCAGTC	480		
ACCESSION	BI335025	60299031F1 NIH_MGC_12	Homo sapiens	Db	1187	CCAGTTTACGGTACTTCGGTGAACGGACTGAACTGAGAGCAGAG	1246		
VERSION	BI335025.1	GI:15019682		Ov	481	CCAGTTTACGGTACTTCGGTGAACGGACTGAACTGAGAGCAGAG	540		
KEYWORDS	EST.			Db	1247	TGAGACCATCTTCCGGACACTGGGGCTCCACAGACCTACTCAGGCTTGCACGG	1306		
SOURCE	Homo sapiens (human)			Ov	541	TGAGACCATCTTCCGGACACTGGGGCTCCACAGACCTACTCAGGCTTGCACGG	600		
ORGANISM	Homo sapiens			Db	601	GAGATGTTATCAGCTGTCATCCGGGAGGAGGATGGCTGCTGTTGACCG	660		
JOURNAL				Ov	1367	ACGGTCCAGGGAGGGTTGGTT-CCGCTCTCTGTCAGGAGTCTGGAGAAT	1425		
COMMENT	Unpublished (1999)			Db	661	ACGGTCCAGGGAGGGTTGGTTCCCTGTCGTCAGGAGTCTGGAGAAT	720		
AUTHORS	1 (bases 1 to 936)			Ov	1426	GAGA-CAGAGCAGTGAAGCTGGCCACCCACAGGAGGAGGAGGAGCAG	1482		
TISSUE	NIH-MGC	<a href="http://mgc.ncbi.nih.gov/">http://mgc.ncbi.nih.gov/</a>		Db	721	GAGACCAAGAGCAGTGAAGCTGGCCACCCACAGGAGGAGGAGCAG	780		
PROCUREMENT	ArCC			Ov	1483	ACCGTGAAGCTGTTGAATAACGAGTGTGTCATCCCTACCGAGACTACTCGAATGTC	1542		
CDDA	National Institutes of Health, Mammalian Gene Collection (MGC)			Db	781	ACCGTGAAGCTGTTGAATAACGAGTGTGTCATCCCTACCGAGACTACTCGAATGTC	837		
LIBRARY	Unpublished (1999)			Ov	1543	TGTCCTATGGGGCAGCCGGACAGGAGCAGTCGGCCAG	1586		
ARRAYED BY	Incite Genomics, Inc.			Db	838	TGTCCTATGGGGCAGCCGGACAGGAGCAGTCGGCCAG	879		
DNA	DNA Sequencing by: Incyte Genomics, Inc.			FEATURES					
SEQUENCING	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <a href="http://image.llnl.gov">http://image.llnl.gov</a>			source	1.	996			
CLONE	Plate: ILM1347, row: n, column: 07			/organism="Homo sapiens"					
LOCUS	High quality sequence, stop: 827.			/mol_type="mRNA"					
LOCATION	Location/Qualifiers			/db_xref="taxon:9606"					
QUALIFIERS				/clone="IMAGE_5141190"					
				/tissue="type=Ovarian carcinoma cell line"					
				/lab_host="DH10B"					
				/clone_1b="NIH_MGC_12"					
				/note="Organ - cervix; Vector: pCMV-SPORT6; site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.4 kb. Library prepared by Life Technologies."					
				ORIGIN					
				RESULT 15					
				LOCUS	BG761459	933 bp mRNA linear EST 15-MAY-2001			
				DEFINITION	6021866F1 NIH_MGC_49	Homo sapiens	CDNA clone IMAGE:4858696 5',		
				ACCESSION	BG761459	mRNA sequence.			
				VERSION	BG761459.1	EST.			
				KEYWORDS					
				SOURCE					
				ORGANISM					
				JOURNAL					
				REFERENCE					
				AUTHORS					
				TITLE					
				JOURNAL					
Ov	36.3%	Score 2604; DB 3; Length 996;							
Best Local Similarity	96.5%	Pred. No. 1; 3e-144; Mismatches 21; Indels 10; Gaps 7;							
Matches	853;	Conservative							
Ov	708	GGGACCTTACTCTCTCAGGTGAATCCAGAATTCTCGAGATGCTGCAAGA	767						
Db	1	GGAGACCTTACTCTCTCAGGTGAATCCAGAATTCTCGAGATGCTGCAAGA	60						
Ov	768	GGCTCTGCTGAAGAGAAGGGCGCTCTGCTTCGGTATAAGGACTGTC	827						

## COMMENT

Contact: Robert Straubberg, Ph.D.

Email: cgbps-r@mail.nih.gov

Tissue Procurement: ATCC/DCP/DP

DNA Library Preparation: Ling Hong/Rubin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILNL)

DNA Sequencing by: Invitae Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LILNL at:

http://image.llnl.gov

Plate: LILCM1713 row: c column: 17

High quality sequence stop: 851.

Location/Dualifiers

1. 933

/organism="Homo sapiens"

/mol type="mRNA"

/db\_xref="taxon:9606"

/clone="IMAGE:4858596"

/tissue type="melanotic melanoma, high MDR (cell line)"

/lab\_host="DH10B (phage resistant)"

/clone\_id="NIH MGC 49"

/note="Organ: skin; Vector: pOTB7; Site 1: XbaI; Site 2:

EcoRI; cdna made by oligo dT priming. Directionally cloned

into EcoRI/XbaI sites using the following 5' adaptor:

GGCGAGG(G). Size-selected &gt;500bp for average insert size

of Gerald M. Rubin (University of California, Berkeley)

using ZAP-cDNA synthesis kit (Stratagene) and Superscript

II RT (Life Technologies). Note: this is a NIH MGC

## ORIGIN

Query Match 36.1%; Score 757.2; DB 2; Length 933;

Best Local Similarity 95.8%; Pred. No. 6e-144; Matches 885; Conservative 0; Mismatches 28; Indels 11; Gaps 10;

Qy 1013 GAAAGCATGTGCTTGTAGAACATTAGACACCCCTTCTAAATGCTTACCAAGAAGGCC 1072  
 Db 2 GAAAGCATGTGCTTGTAGAACATTAGACACCCCTTCTAAATGCTTACCAAGAAGGCC 61  
 Qy 1073 CGCGCTCTTCAGGAGCACATACCAAGTCCCTGATGATGATGTTAAATACCCAGCA 1132  
 Db 62 CGCGCTCTTCAGGAGCACATACCAAGTCCCTGATGATGATGTTAAATACCCAGCA 121  
 Qy 1133 CGCGCTCCCGAATTACAAGGGTAAATAATTCACAGGTACTTCCGAAAGATCCAGT 1192  
 Db 122 CGCGCTCCCGAATTACAAGGGTAAATAATTCACAGGTACTTCCGAAAGATCCAGT 181  
 Qy 1193 TACAGGGATGTTGGTCAACGGACTGACATGATGAGAGACAAAGTGAAGA 1252  
 Db 182 TACAGGGATGTTGGTCAACGGACTGACATGATGAGAGACAAAGTGAAGA 241  
 Qy 1253 CACATCTCCCCC-AACATGGGGCTCCA-CAGAACCTTACTCACCTTCCACAGGAGA 1310  
 Db 242 CACATCTCCCCCAGACATGGGGCTCCA-CAGAACCTTACTCACCTTCCACAGGAGA 301  
 Qy 1311 TGTCTCATCACCTGCTCATCCCCAGGAGAACGATGCTGCTCATGGAGAACGAC 1370  
 Db 302 TGTCTCATCACCTGCTCATCCCCAGGAGAACGATGCTGCTCATGGAGAACGAC 361  
 Qy 1371 GTTCCAGGCGGGGTGGTCCCTGCTGATGAGAGCTGCTGCTCATGGAGAACGAC 1430  
 Db 362 GTTCCAGGCGGGGTGGTCCCTGCTGATGAGAGCTGCTGCTCATGGAGAACGAC 421  
 Qy 1431 AGAACGAGTGGCC-GNGCCCAAGGCCA-CACCAAGTGGAGCATAGACCGTG 1488  
 Db 422 AGAACGAGTGGCC-GNGCCCAAGGCCA-CACCAAGTGGAGCATAGACCGTG 481  
 Qy 1489 ACTTGTCTGAGAATAGCTGCTGCTCATCCCCACCCGACTCTGGATGCTGCT 1548  
 Db 482 ACTTGTCTGAGAATAGCTGCTGCTCATCCCCACCCGACTCTGGATGCTGCT 541  
 Qy 1549 ATGGGGCACTGCCACAGCAGGAGATGGCGAGGAAGACATCCACCTTAAGGCC 1608

Search completed: March 20, 2006, 15:59:48

Job time : 8390 secs

Db 542 ATGGGGCCAGCTGCCGACAGGAGGATTCGGCCGGACACATCCACCTTAAGGCC 601

Qy 1609 CCAGCGTCCAAAG-CCCGAGACGCCGGGGCTCTAACGATGCTGCAAAGGCC 1667

Db 602 CCAGCGTCCAAAGTCCCGAGACGCCGGCTCCATACGATGCCAACGGGCC 661

Qy 1668 TTTCTCAGCGGAGANACCCCTTSCACTCTGAAACTCGCCGAGCTGTGAGATGA 1727

Db 662 TTTCCTAGCGGAGANACCCCTTSCACTCTGAAACTCGCCGAGCTGTGAGATGA 721

Qy 1728 TCGCTGGCACCATCATTCATGAGAGAGCCAGGACTCTCCGGGCTCTCGGT 1787

Db 722 TCGCTGAGCACCCATCTCGATGAGGACAGGC-AGGACTCTCCGGGCTCTCGGT 780

Qy 1788 TCTCCCTTGCGGAATGATGGGGCATCTGCTGCTGCTGAGGGTGGGAAGCTT 1846

Db 781 CTCCCTTGCGGAATGATGGGGCATCTGCTGCTGCTGCTGAGGGTGGGAAGCTT 840

Qy 1847 CAGTGGAA-GAGGCCTACTCTAAATGTC-GCTGCTTAAGAAATCCATGCTCTGTT 1902

Db 841 CAGTGGAAAGGGCTTACTCTATGTCGCTGCTGCTGCTGAGGGTGGGAAGCTT 900

Qy 1903 TCACGATGTTGGTGTGACAGCTT 1926

Db 901 TCCCGTAGTGTGGTCCAGCTT 924